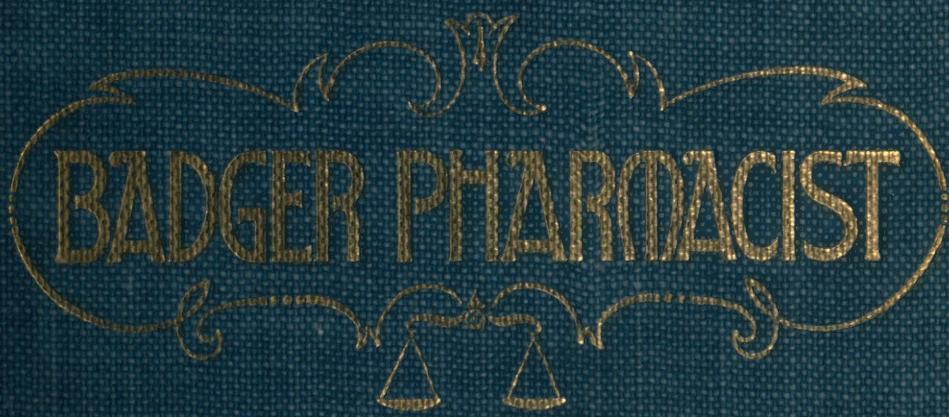


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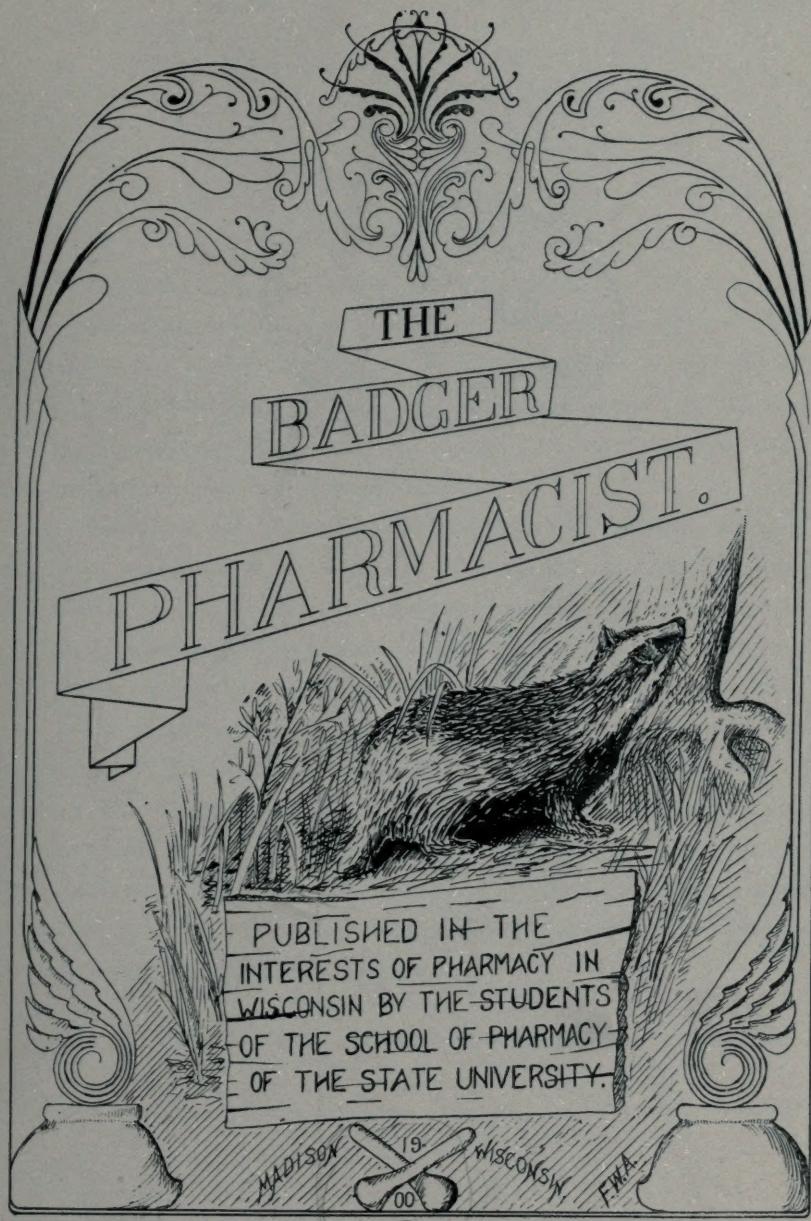
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## PREFACE.

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THE Badger Pharmacist is a first attempt to bring together all important information pertaining to pharmacy in one state of the Union. It has met with the heartiest support on the part of those druggists of the state who understood its scope and realized its significance. Its appearance was delayed in part by those difficulties inherent to a first attempt of this kind.

In dedicating this volume to the druggists of Wisconsin, we hope that they will judge it not only according to its merits and demerits, but also according to the difficulties that had to be overcome in order to bring together the imperfect volume which it is. The original idea entertained with regard to the chapter on "Retail Druggists" had to be abandoned because of the impossibility to get together the necessary information. Should the volume meet with such favor among the druggists of Wisconsin that a second edition becomes necessary, we have no doubt that a revision will be undertaken by our successors in the School of Pharmacy which will result in an improvement over the one we take pleasure in offering to our seniors in the calling we are about to enter.

*The Pharmacy Students of the University of Wisconsin.*



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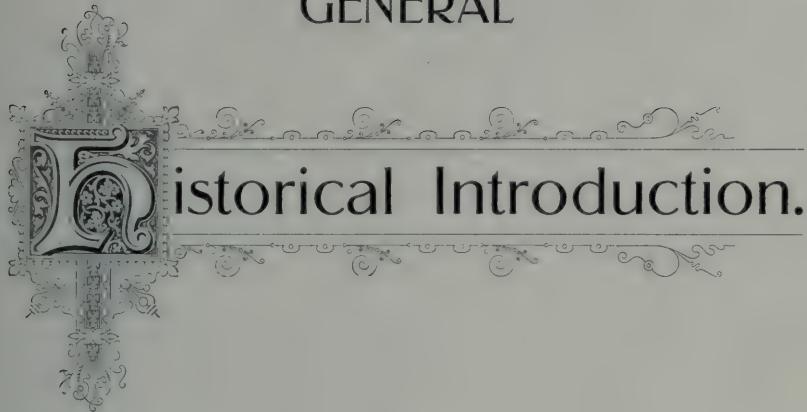
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## GENERAL

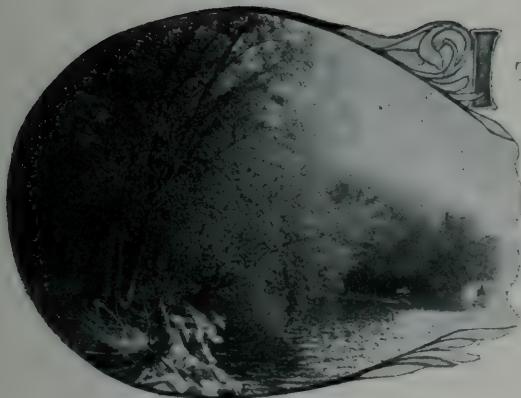


Medicine Bag.



Forth there issued Hiawatha,  
Wandered eastward, wandered westward,  
Teaching men the use of simples  
And the antidotes for poisons,  
And the cure of all diseases.  
Thus was first made known to mortals  
All the mystery of mechanism,  
All the sacred art of healing.

LONGFELLOW.



Shore of Lake Mendota.

T was in 1634, fourteen years after the landing of the Mayflower, that Jean Nicolet placed his foot on what is now Wisconsin soil, near the mouth of the Fox river. The first ambassador of Champlain had expected to be received by Asiatic mandarins, but was met by a horde of nearly naked Winnebago Indians. Such was the beginning

of the history of Wisconsin under the regime of the white man.

There is no record of any white man being in Wisconsin between 1634 and 1658-59 when the country was visited by Pierre d' Erprit, Sieur Radisson and Médard Chonart, Sieur des Grosseilliers, who entered the Northwest, determined "to travel and see countreys" and whose bark possibly floated on the Mississippi, thus antedating the discovery by La Salle by not less than eleven years, and that of Joliet and Marquette by fourteen years. The possibility of visits to what is now Wisconsin by *coureurs de bois* between this period and even before 1634 is not excluded, but no record is kept of them.

The missions established by the Jesuits, namely, that of the Holy Ghost at La Pointe, probably between the present cities of Ashland and Washburn, the St. Francis Xavier Mission, the *Mission des pères*, corrupted into the Depere of to day, and the St. Ignace mission are of especial interest in the early history of the State. Although the

Jesuit missionaries Menard, Allouez, Marquette, Dablon were not successful in christianizing the Indians, the natives seem to have welcomed them in their bark lodges and matted tepes, when they came to care for the sick and speak words of encouragement to the down-hearted. Thus these ministers to the soul also became the first white ministers to the body in case of sickness. It is to be hoped that the Jesuit Relations, now made accessible to every scholar, will some day be read by a student of pharmaceutical and medical history in order that we may have some of the details of the role which the Jesuit fathers played in the early medical and pharmaceutical history of our state. From their reports we may hope to learn something about the drugs used by the Indians if they made use of them as indicated by traditions.

The early history of Wisconsin is full of romance, but the story of the lawless *courreurs de bois* of the French explorers, the hardships of the missionaries, the wars between the French and the Indians and the final surrender of the French to the English domination in 1760 cannot make up for the absence of historic facts of a pharmaceutical nature during this period. Whether the future study of this period will produce anything of pharmaceutical interest remains to be seen.

In 1761 the abandoned French post at Green Bay was garrisoned by a lieutenant, a sergeant, a corporal and fifteen privates, and the British captain before leaving christened this dismal outpost Fort Edward Augustus. After the massacre at Fort Mackinaw by Poutiac and his Ottowas, the Green Bay Post was evacuated. Although nominally under the British flag, the French *courreurs* and *habitans*, the half-breeds and Indians once more had full sway. During this period Captain Jonathan Carver, first a medical student, then a Massachusetts militia officer, and lastly an inveterate traveler, conceived the notion that he could discover a Northwest passage to the Pacific Ocean by way of the upper Mississippi. He started in 1766. He reached Green Bay the eighteenth of September, he ascended the Fox and descended the Wisconsin, thence proceeding by the Mississippi to the Falls of St. Anthony, etc. Though disappointed in his prime object, he made a remarkable tour, the details of which he gave to the world in a book of travels. It is to be hoped that from this work a few facts at least of medical or pharmaceutical interest may be gleaned.

Under the treaty of peace between the Colonies and England in 1783, the Northwest was ceded to the United States, but the territory continued practically under English control. The ordinance of 1787 had no immediate effect on what is now Wisconsin, for the settlements at Green Bay, Prairie du Chien and La Pointe were in the hands of French and half-breed traders and *voyageurs*, while the Indians were abundant. Wisconsin was evacuated by the English in 1796 and ultimately came under actual control of the United States at the close of the war of 1812-15.

In 1809, the same year in which Hunt and Crooks, two of Astor's lieutenants in the fur trade, crossed the state on their way to the Mississippi; Thomas Nuttall, the botanist, and John Bradbury, the Scotch naturalist, passed over the Fox-Wisconsin waterway, taking extended notes on Wisconsin flora. These also, it is to be hoped, may throw some light on the early Wisconsin medicinal plants and their use by Indian and French *habitants*. In 1836, Wisconsin, which had at different times belonged to Indiana, Illinois and Michigan territories, was divorced from her present sister states and reared into an independent territory. At that time there were about twelve thousand whites within her borders, and many sites of future cities were occupied by permanent agricultural settlers. In 1848 Wisconsin became a state. The census of 1850 revealed the presence of 305,391 white persons, against 30,945 in 1840. The newcomers while largely from New York, New England and Ohio, included many thousands of European emigrants; Germans, Scandinavians, Irish, Poles, Belgians, Dutch, Swiss, English and Scotch. That representatives of these foreign nationalities played a role in the pharmaceutical history of the state will be shown later.

During the pioneer life of pre-territorial days, drug stores were few and far between. The remedies used were undoubtedly chiefly of the household kind or such as a traveling physician could carry in his saddle bags. The mothers, in all probability, were the principal drug collectors as well as the family physicians in early Wisconsin, while the occasional physician was his own dispenser. Green Bay, the oldest city in Wisconsin, boasts of having had the first drug store. Milwaukee, however, soon outgrew the older Wisconsin settlements,

and it is largely due to the newspapers in the early forties that at present at least we know more about the first drug stores in Milwaukee

**HIGBY & WARDNER,**  
DEALERS IN  
*Drugs Medicines*  
*PAINTS, OILS,*  
*Dye-woods & Stuffs*  
*&c. &c.*

**H**AVE just received an extensive assortment of Drugs Medicines, Paints, Oils, Dye Woods, and Stuff, Brushes, Perfumery, and patent Medicines together with a general assortment of physician's and Chemist's preparations etc. etc., among which are:

|                       |                     |
|-----------------------|---------------------|
| Aloes.                | White Lead,         |
| Alcohol,              | Red Lead,           |
| Alum,                 | Ven Red             |
| Anatto,               | Vermillion          |
| Balsam Cepaiva,       | Varnish             |
| Borax.                | French Yellows      |
| Brimstone,            | Spanish White       |
| Sulphur,              | Lemp Black          |
| Salt Petre,           | Spirits Turpentine, |
| Epsom Salts,          | Linseed Oil         |
| Cannphor,             | Lamp Oil            |
| Castor Oil            | Camwood             |
| Cloves,               | Logwood             |
| Nutmegs,              | Fustic              |
| Cinnamon,             | Nicaragua           |
| Corrosive Sub         | Indigo              |
| Red Precip.           | Coperas             |
| Opium                 | Madder              |
| British Lustre,       | Paint Brushes       |
| Camel's Hair Brushes. |                     |

The subscribers, dealers in the above line, solicit the attention of the public and the trade generally, to their stock which will be sold on terms reasonable for CASH. Orders from any part of the Territory promptly attended to and packed with particular care.

HIGBY & WARDNER,  
Milwaukee, Sept. 29, 1841. 6t

than those of any other city. Indeed the very name of the place has something pharmaceutical about it. The first drug store in Milwaukee was opened by Mr. L. J. Higby on East Water Street in 1836.

In 1843 Mr. Higby had a general store in which drugs played no very important role. Being a prolific advertiser we know that he had a very miscellaneous stock, including dry goods, groceries, hardware, crockery, drugs, medicines, books and stationery. Two other druggists advertised during the same year in the Milwaukee Commercial Herald, viz.: Frederick Wardner, and A. F. Clark and Co. Fortun-



**A. F. CLARKE & CO., (next Door to Fred Wardner,) have received their Winter Stock of DRUGS and MEDICINES, which they offer to Dealers, Physicians and others at as low prices as they can be bought in any town west of N. Y. Among their articles may be found:**

|                                                                 |                                                                                                                               |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 20 lbs. Gum Myrrh                                               | 50 lbs. Ground Gentian                                                                                                        |
| 40 " " Fructida                                                 | 100 " Glue                                                                                                                    |
| 40 " " Aloes                                                    | 6 oz. Hydriodate                                                                                                              |
| 30 " " Camphor                                                  | Potass                                                                                                                        |
| 20 " " Arabic                                                   | 6 oz. Iodine                                                                                                                  |
| 50 " " Sennelack                                                | 20 lbs. Spanish Float                                                                                                         |
| 20 " Opium                                                      | Indigo                                                                                                                        |
| 1000 " Epsom Salts                                              | 20 lbs. Powered Ipecac                                                                                                        |
| 600 " Glander do                                                | 30 lbs. Ex. Liquorice                                                                                                         |
| 300 " Salt Peter                                                | 20 " Carb. Magnecia                                                                                                           |
| 500 " Alum                                                      | 5 " Calc. do                                                                                                                  |
| 2 bbls. Alcohol                                                 | 50 " Sup. Carb. Soda                                                                                                          |
| 1 " Castor Oil                                                  | 500 " Sal. Soda                                                                                                               |
| 50 lbs. Tartaric Acid                                           | 10 " Oil Perpermin                                                                                                            |
| 20 " Nitric "                                                   | 20 oz. Sulph Quinnine                                                                                                         |
| 20 " Muriatric "                                                | 200 galls. Linseed Oil                                                                                                        |
| 100 " Sulphurie "                                               | 1000 lbs. White Lead                                                                                                          |
| 20 " Balsam Copav.                                              | 300 " Spanish Brown                                                                                                           |
| 20 " Blue Pill, Eng.                                            | 300 " Venitian Red                                                                                                            |
| 30 " Vitrol                                                     | 800 " Logwood                                                                                                                 |
| 20 " Canthrides                                                 | 200 " Cam. Wood                                                                                                               |
| 50 " Fol. Senna                                                 | 200 " Hick. do                                                                                                                |
| 20 gro Fric Matches                                             | Together with a general assortment of Patent Medicines, Chemicals, Brushes, and all the articles usually found in their line. |
| N. B.—Their articles may all be depended on as good and genuine |                                                                                                                               |
| Milwaukie Nov. 15, 1842.                                        |                                                                                                                               |

Facsimile of an advertisement in the Milwaukee Commercial Herald.

With permission of the Milwaukee Sentinel Co. and the Historical Committee of the Wis. Pharm. Ass'n.

ately two advertisements of this period have been found which throw some light on the drugs that were kept in stock during the territorial period of our present state. One of them even mentions the quantities that were offered for sale.

From the above list it will be seen that aloes, Epsom salts, senna leaves and castor oil played an important role in the medical armamentarium of those days. Six ounces each of potassium iodide and

iodine, also twenty ounces of quinine seem a small winter outfit for a wholesale as well as a retail business. In judging these quantities it should be borne in mind that Wisconsin in 1843 expected an increase of 30,000 and that communication with eastern cities was exceedingly difficult in winter, if not impossible. Opium as well as the last three drugs enumerated above was evidently considered a luxury. Even then, mothers apparently had to do a good share of the doctoring as well as the dyeing (comp. amounts of dye-stuffs) for their households.

Facsimile of  
an advertise-  
ment in the Mil-  
waukee Com-  
mercial Herald.

With permission  
of the Mil-  
waukee Sentinel  
Co. and the His-  
torical Commit-  
tee of the Wis.  
Pharm. Ass'n.



That the conditions did not change very materially when Wisconsin became a state we know from the reminiscenses of Mr. John A. Dadd, who came to Milwaukee in July 1850. He had been trained as chemist and druggist in London, and found conditions rather primitive. The stock consisted of "tar, treacle (molasses) and testaments," *i. e.*, it was very miscellaneous, and the drug clerk had to act as porter, errand boy and prescription clerk, while at night he slept among the barrels of sugar, chests of tea, or boxes of drugs. Having measured molasses or counted candles, he would be called upon to put up a prescription. The London apprentice was not a little surprised to see quinine "dumped into a bottle, a little dilute or aromatic sulphuric acid added, shaken up, other ingredients added without measurement, corked, labeled and turned out in a rough and ready fashion." Fortunately for himself and Wisconsin pharmacy, the newcomer from London stuck to his early training to do these things *secundum artem*. New to him were the aromatic syrups of rhubarb; the hot drops, a

preparation of capsicum and myrrh; also another Thompsonian remedy called composition, a compound of bay berry, capsicum, ginger, and myrrh; and the Shaker herbs and roots. Calomel is reported to have been taken in doses of 10, 15 and sometimes 30 grains.

The first exclusive retail store is reported to have been opened by I. N. Morton about 1858 or 1860. About this time also a considerable number of German apothecaries came to Milwaukee with the strong German movement to this state which began in 1848. In

**DEUTSHER SPECEREY LADEN.**  
**FARB & APOTHEKER-WAREN.**

**D**ER Unterzeignite macht hiemit bekannt,  
dass er hente hier im Orte, obiges Get  
shaeft eroeffnet hat und empfiehlt sich den Ein-  
wohnern von Milwaukee und der Umgegend in  
angefuehrten Artickeln bestent, mit der Versi-  
cherung guter Waaren zu billigsten Preisen.  
Kenntnisse von saemtlichen Artickeln, beson-  
ders auch Apotheker-Waaren, glaube ich mir  
zutrauen zu duerfen, indem ich mehrere Jahren  
in Deutschland ein Aehnliches Geschaeft ge-  
fuehrt habe. Ausser obigen Waaren, bezog  
ich gleichfalls von New York, verschiedene  
Sorten der feinsten Liquore als: Pfeffermuenz,  
Anisette, Wintergruen, Parfait amour, Orange  
and Rose, Strengthion's Bitters mit Chinin (als  
Mittel gegen das Kalte Fieber: &c. &c.)  
Ferner feine Fruchte als: suesse und bittere  
Mandeln, Citronen, Corinthen, Pflaumen, aile  
Sorten, Nusse, auch Sardellen, Oysters &c.  
Gestuctzt auf eine hinreichende Auswahl in  
obi en Waaren, Hoffe ich, nach eines Zahlrei-  
chen zuspruchs ersfreun zu duerfen.

McCormick's building, East Water-street  
JOHN WINTER  
Milwaukee Nov. 1, 1842.

---

DRUGS,

**A** GOOD assortment for sale by Smith &  
Brother, at their New York City Store.

Facsimile of  
an advertisement in the Milwaukee  
Commercial Herald.

With permission  
of the Milwaukee Sentinel  
Co. and the Historical Committee  
of the Wis. Pharm. Ass'n.

the Milwaukee City Directory, for 1865, *e. g.*, we find the names of twenty-one retail and six wholesale drug firms. Of the retail druggists, thirteen bear German names. Milwaukee at that time had not far from 75,000 inhabitants.

As we have already seen the methods of the English "chemist and druggist" compared favorably with the "rough and ready" practices of the pioneer druggist. To the German apothecaries, however, with their strict training and their ideas of government control of the professions dealing with the life and physical welfare of man, the first

attempt to improve the status of pharmacy by united effort is due. Of the forty druggists in Milwaukee in 1875, thirty were Germans or German Americans, a fair number of whom had received a more or less complete pharmaceutical training and education in the fatherland. In September of that year, ten of them met and organized the Milwaukee Pharmaceutical Society, the object of which was to raise in every way possible the calling represented. The members were to be careful in the selection of their apprentices, the latter were to be systematically trained. Even a kind of pharmaceutical college was to be established. The requirements for admission, however, were such as to cause offense and a counter movement was started. This resulted in a petition to the Common Council that an ordinance be passed regulating the practice of pharmacy in the city of Milwaukee. This resulted in the passage by the legislature in March, 1876, of the first law regulating the practice of pharmacy. It remains here to be stated that, when the draft of the bill to be submitted to the legislature came up for discussion, practically all differences were laid aside and the druggists of Milwaukee acted as a unit securing for their calling that representation which was their just due. From 1876 to 1882, while the city law was in effect, the druggists of Milwaukee met annually to select the names of two of their number to be submitted to the mayor for appointment on the local board. Several attempts to reorganize a local association failed. Little else of importance seems to have come before the druggists of Milwaukee as a body. The Board held its monthly meetings and examinations, a complete record of which has been preserved and now constitutes a part of the historical collections of the Wisconsin Pharmaceutical Association. During the four and a half years of its existence, thirty-six candidates were examined. Only in a few instances was more than one candidate examined at a time, whereas several were examined twice before being granted a certificate. A list of registered pharmacists was also kept by the Secretary of the Board.

A local association of importance was organized in Rock County through the influence of Mr. E. B. Heimstreet and others. The first meeting was held in Janesville, June 4th, 1879. Its membership, however, was not restricted to Rock County. At its fifth regular meeting,

held in Janesville, January 5th, 1880, the Association accepted an invitation to meet in Madison in July and the Secretary was instructed to send notices to all druggists of the state, inviting them to attend. This is the conception of the Wisconsin Pharmaceutical Association, which had its birth July 14th, of the same year with representatives from 32 places in attendance. Henceforth the development of pharmacy in the state became more or less closely affiliated with this state organization.

The first measure of importance undertaken by the State Association was to secure the passage of a state law regulating the practice of pharmacy. The second important step decided upon was to ask the legislature for the establishment of a chair of pharmacy and *materia medica* at the State University. In both of these measures the Association was largely successful, though the present results are possibly not such as were anticipated. Though the regulation of the practice of pharmacy by state law kept out those totally ignorant of the science and art of pharmacy, yet the standard enforced has possibly of necessity been so low that the competition in the drug business seems keener to-day than ever before. Neither has the School of Pharmacy of the University been numerically as successful as was anticipated by its founders, for many prospective pharmacists have sought shorter courses, while an even larger number has been satisfied without college training of any kind.

Attempts to form local city or county associations have not been generally successful. Even less successful was the effort of a number of druggists to form an association for mutual protection against fire. With the secret remedy problem, the so-called patent medicines, the association has also grappled repeatedly. At the present time the druggists of Wisconsin, united with those of other states in the National Convention of Retail Druggists, are making another effort to restrict the sale of these popular medicines to drug stores and to secure the maintenance of original prices. With what success remains to be seen. A more rational attempt to deal with this "incubus" is being made by the Wisconsin Pharmacal Co., a corporation of registered pharmacists that has grown out of the state association.

This company places into the hands of its stockholders, and of others at a slightly advanced price, a line of popular remedies designed to replace the so-called patents. From the ethical standpoint they have the advantage of being non-secret, the formula being published on every package. From the commercial point of view they have the advantage of being cheaper to the druggist and of being sold at prices with a larger margin. These remedies are sold to druggists



View of S. Pinckney St., Madison, from the dome of the old Capitol, including the drug store of Dunning, Jones & Co., spring of 1860.

only. The officers of this company are very well satisfied with the success of this co-operative experiment.

To attempt to give an inventory of the average Wisconsin drug store of today would hardly be within the scope of this brief sketch. Though the general store with its drug department has disappeared almost entirely from the larger and elder cities, most drug stores still contain, in addition to drugs, a miscellaneous stock of toilet

articles, perfumes, cigars, soda water, confectionery, bric-a-brac, newspapers and magazines, wall paper, paints and oils, etc., in addition to a considerable stock of "patent medicines." Drug stores are more elegantly equipped than formerly and, although the stock is varied, it is undoubtedly also much more complete in the purely drug and medicine line than formerly. In large part, at least, the greater variety of preparations is due to the fact that physicians prescribe preparations of certain manufacturers. The drug store is also no longer the rendezvous for a species of drinking that was in violation of the law and in many localities degraded the profession.

Wisconsin has had a number of wholesale drug stores, most of which have been located in Milwaukee. None of them, however, has so far had more than a sectional trade, though this in several instances has been considerable. Several of the larger wholesale drug houses in the East which have a national reputation still do considerable business in Wisconsin.

In the line of pharmaceutical manufacturing, Wisconsin cannot boast of large establishments, unless those of malt preparations are included. Some of the wholesale houses, as well as retail pharmacists, have manufactured galenicals on a small scale, *i. e.*, small when compared with the output of the large establishments in Detroit, Philadelphia, New York, Baltimore, and elsewhere. Wisconsin also has a drug mill and a beginning has been made in the manufacture of medicinal chemicals.



Saddle Bags used by Dr. A. Belknap of Whitewater in his medical practice in Walworth and Jefferson counties during the fifties and sixties. Presented by Mrs. Belknap to the Historical Committee of the Wis. Pharm. Assoc.



Mortar of Mr. Julius Breitzmann, apothecary in Berlin, Germany, and since 1848 or '49 in Sheboygan. Since 1882 in possession of Mr. Max Zaegel of Sheboygan, whose two-year-old son Robert is pictured with the relic. Weight of mortar and block is 170 pounds. The mortar was exhibited in 1885 at the time the Wis. Pharm. Assoc. met in Sheboygan and a cut of it appeared on the rear cover of the programme as the "oldest mortar in the state."





## Milwaukee Pharmaceutical Society.

The first pharmaceutical organization in Wisconsin of which we have any knowledge was formed by ten German apothecaries in Milwaukee on Monday evening, September 13th, 1875. The name Milwaukee Pharmaceutical Society was adopted and Mr. J. Kienth, in whose pharmacy, on Third and Galena streets, the meeting was held, was elected President and Mr. F. Roemheld Secretary. The object of the association was to protect the public against ignorance and carelessness, and to provide rules affecting the relation between druggists and their apprentices, primarily with regard to the educational qualification of the latter. The membership of this society was to be restricted. It was to include, first, those druggists who had had academic training; second, those who had passed some state board examination; and, third, those who had had fifteen years of drug store experience.

The exclusiveness of this association created considerable antagonism and called forth a lively discussion in the German dailies. The second meeting, to which all those druggists who were eligible had been invited, was attended by but a few. It was resolved to avoid further controversy in the newspapers and to privately invite all Milwaukee druggists to join the society. It had also been the intention of the originators to establish a pharmaceutical school.

A counter movement was at once inaugurated and within a week the Common Council of Milwaukee was petitioned by twenty-two individual druggists and drug firms to have a suitable law enacted by which their calling should be regulated so as to reduce errors and to

prevent incompetent persons from engaging in the drug business. The history of this movement will be traced in another chapter. Suffice it here to state that the first Milwaukee Pharmaceutical Society practically ended with its inception, and to call attention to the several attempts made to revive such an organization including all druggists of the city.

As will be seen under the subject of legislation, Milwaukee for several years possessed a local pharmacy law and a local board of examiners. The members of this board were appointed, one each year, by the Mayor from two names submitted to him by the druggists of Milwaukee. For the election of the men whose names were thus to be submitted the druggists of Milwaukee met in July or August of each year. At these annual meetings several attempts were made to revive a local organization.

From the minutes of the Milwaukee Board of Pharmacy, John A. Dadd, Secretary, we learn that at the second annual meeting in 1879 a committee was appointed "for the purpose of endeavoring to form a Pharmaceutical Society." At the meeting in 1880, another committee was appointed with the same object in view. At the meeting in 1881, so the Secretary's minutes inform us, this second committee reported that nothing had been done. Apparently this was the last annual meeting, for in 1882 the city board was superceded by the state board.

Meanwhile a local society had been organized in Janesville, which rapidly outgrew the limits of Rock County and took the initiative in the formation of a state association. A number of druggists met for the purpose of organization in Madison July 14th, 1880. The first annual meeting was to be held in Milwaukee in 1881. Mr. Dadd, of Milwaukee, had been elected President of the newly organized state association and Mr. Schranck Local Secretary for the Milwaukee meeting. Evidently, in order to properly receive their confreres from the state, the druggists of Milwaukee organized in August, 1881, with Henry Fess, Jr., as President, Otto Thiele as Secretary, and H. C. Schranck as Treasurer. Thus outside events caused successful organization where home initiative had failed. However, the Milwaukee



City Clerk's Office

Milwaukee Aug 16 1856

To John A. Darrow Esq  
4<sup>th</sup> Ward

Dear Sir.

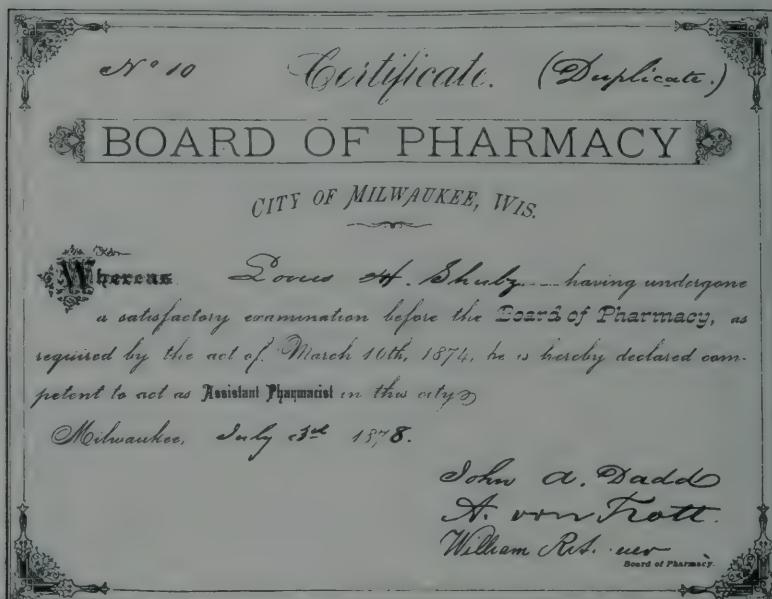
I am directed by His Honor  
Major Butler to inform you that  
he has appointed

John A. Darrow for the term of three years  
W. Nitwyszer " " " two years  
G. Lawrence " " " one year  
as a Board of Pharmacy for the  
City of Milwaukee

Respectfully  
John Maloney  
City Clerk  
by My Brother Day

Facsimile of the commission of the first Board of Pharmacy of Milwaukee. Original in possession  
of the Historical Committee of the Wis. Pharm. Ass'n.

society outlived the immediate necessities and has proven its right to exist and the capacity for initiative in other directions on more occasions than one. It is to be hoped that a detailed account of the work of this local society will some day be written. It will have to suffice for the present to reproduce the original constitution. The constitution and by-laws of the present local society will be found on page 21.



Facsimile of a certificate issued by the Milwaukee Board of Pharmacy. Original in possession of the Historical Committee of the Wis. Pharm. Ass'n.

"This association shall be called the Milwaukee Pharmaceutical Association. Its object is to advance the interests of druggists of this city, bring its members into closer fellowship and promote sociability and good feeling.

"All druggists of good standing are eligible, provided no five druggists object to their election. The association shall meet monthly, and ten members shall be a quorum.

"The officers of this association shall be a President, Secretary and Treasurer, who will perform such duties as are usually required of such officers. They are to be elected annually.

"Every member shall pay an initiation fee and also an annual fee of \$— to the Treasurer.

"Resignation of members shall be made in writing and shall not be accepted if such member is in arrears to the treasury.

"All charges against members shall be made in writing, and if the charges are sustained the member may be expelled by a two-thirds vote of the association.

"The order of business, rules of debate, etc., shall be governed by the established usage of parliamentary bodies."

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## Constitution of the Milwaukee Pharmaceutical Society.

### ARTICLE I.

#### NAME.

This association shall be known as the Milwaukee Pharmaceutical Association.

### ARTICLE II.

#### OBJECTS.

The objects of this association shall be to advance pharmaceutical science, to cultivate professional courtesy and good fellowship, to foster commercial integrity, to discourage excessive, unfair and unmercantile competition; to abolish existing evils, and by concert of action to prevent the growth of customs that may be contrary to good policy and sound business principles.

### ARTICLE III.

#### MEMBERSHIP.

The members of this association shall consist of proprietors or managers of pharmacies conducted in the City and County of Milwaukee.

The annual dues shall be one dollar (\$1.00) payable in advance, January 1st of each year.

### ARTICLE IV.

#### OFFICERS.

The officers of this association shall consist of a President, a Vice-President, a Secretary and Treasurer, who shall be elected by ballot at the first regular meeting and at the annual meeting thereafter.

Their terms of office shall be for one year or until their successors are elected.

**ARTICLE V.****DUTIES.**

The President and respective officers shall discharge the usual duties of such officers.

**ARTICLE VI.****TIME OF MEETING.**

The annual meeting shall be held the third Thursday in January of each year, and the regular monthly meeting shall be held the third Thursday of each month.

**ARTICLE VII.****SPECIAL MEETINGS.**

Special meetings of this association may be called by order of the President, and shall be called upon the written request of five members. Each member of the association shall be notified of such special meeting.

**ARTICLE VIII.****QUORUM.**

Eleven members of this association shall constitute a quorum. Each firm shall represent but one vote and be liable for dues as one member.

**ARTICLE IX.****SECRETARY AND TREASURER.**

The Secretary and Treasurer shall make a report at each regular monthly meeting, and at any time on request of the President.

**ARTICLE X.****GRIEVANCE COMMITTEE.**

A committee of five shall be appointed annually by the President, and called the committee on grievances, whose duty it shall be to prepare and furnish to each member of this association a list of prices which shall be the minimum price at which the articles named in the list shall be sold at retail, by the members of this association. It shall be the duty of this committee to investigate and, if possible, adjust all grievances brought to their attention. It shall also be the duty of this committee to report at all meetings.

**ARTICLE XI.****COMMITTEE ON ARRANGEMENT.**

A committee of five shall be appointed annually by the President, to be known as the committee on arrangements, whose duty it shall be to look after the social features of this association and such other functions as the association may direct.

**ARTICLE XII.****BOARD OF DIRECTORS.**

The officers of this association shall constitute a "Board of Directors" who shall look after the financial affairs of this association. No debts shall be contracted for, or in the name of this association, except in emergency cases only, and then by a two-thirds vote of the above Directors.

All bills must be passed upon by this association at one of its regular or special meetings.

## ARTICLE XIII.

## ORDER OF BUSINESS.

The order of business at all regular meetings of this association shall be—

1. Reading of Minutes.
2. Officers' Reports.
3. Reports of Committees.
4. Unfinished Business.
5. New Business.
6. Adjournment.

## ARTICLE XIV.

## AMENDMENTS.

These articles may be amended by a majority of those present at any regular or special meeting, after thirty (30) days notice of such amendment has been given in writing to the members of this association.

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**Rock County Pharmaceutical Society.**

Upon invitation, eight druggists of Janesville, Beloit, Clinton Junction and Milton met in Janesville on the afternoon of June 4th, 1879, and organized the Rock County Pharmaceutical Society, with Dr. Smith, of Evansville, as President, and Mr. E. B. Heimstreet, of Janesville, as Secretary. A second meeting was held at Beloit June 9th of the same year, attended by fourteen druggists from Beloit, Janesville, Clinton, Milton, and Rockton, Ill. Details of the organization were perfected by adopting a constitution and by-laws. Dr. E. R. Squibb, of Brooklyn, Mr. C. F. G. Cole, of Beloit, Mr. Jas. R. Nichols, of Boston, Prof. J. W. Mill, of Chicago, were elected honorary members. A third meeting was held July 15th, 1879, at Clinton Junction, with twelve members in attendance. Prof. T. C. Chamberlain, then at Beloit College, later President of the University of Wisconsin, was elected honorary member. Four new members from Sharon, Milton Junction, Delavan and Madison were elected. Several papers were read and twelve topics for future papers were assigned. A number of exhibits are recorded as having been made at this meeting. The association even appointed delegates to the American Pharmaceutical Association. The fourth meeting was held January 15th, 1880, in Janesville, with twenty-one persons in attendance. Four of these represented Chicago interests and two were from Fort Atkinson, which

The Rock County Pharmaceutical Society held their annual meeting in this city yesterday. The meeting was called to order by W. P. Clarke, of Milton, in chair.

The roll call showed the following present: A H Hollister, Madison; E B Heimstreet, Janesville; W P Clarke, Milton; W H Gates, Milton Junction; Dr C M Smith, Evansville; R W Cheever, Clinton; F F Prentiss, Janesville; A J Roberts, Janesville; D C Griswold, Evansville; W C Royden, Rockton, Illinois; O L Woodward, Clinton; W M Eldridge, Janesville; H J Dexheimer, Ft Atkinson; J A Neilson, Chicago, Illinois; Will A Hoyt, Ft Atkinson; E B Stuart, Chicago, Illinois; J W Grossbeck, Harvard, Illinois; L A Lange, Chicago, Illinois; J X Gardner, Chicago, Illinois; H C Stearns, Janesville; C A Emerson, Beloit.

The minutes of the last meeting were read and approved.

Committee on Notes and Queries then made the following report:

Papers to be read at next meeting  
Furnish formulas for Syr. Rheum potassae. Accepted by E. R. Smith Beloit.

Furnish cause and remedy for precipitation of the official Tr. of Rhei. Accepted by W. P. Clarke, Milton.

The syrups of the U. S. P.—is it best for the retail druggist to buy them from manufacturers, make them from fluid extracts, or manufacture them themselves from crude material. Accepted by C. A. Emerson, Beloit.

Furnish formulas for making the best flavoring extracts with the least expense. Accepted by A. H. Hollister, Madison.

Why does the Tinct. of Br. Cohosh and Capsicum deposit, precipitate on the sides of the dispensing bottle, and how may this be remedied. Accepted by O. L. Woodward, Clinton.

Furnish standard formulas for Elixir Lacto Peptine. Accepted by A. J. Roberts, Janesville.

Give process for removing Tannin from vegetable so'st so that Iron prep's may be mixed with them. J. H. Gates, Milton.

Furnish method of detecting adulterations in the Oils of Hemlock & Origanum. Accepted by E. B. Heimstreet, Janesville.

Furnish a formula for Hair Preparation, that will at the same time promote the growth of the hair, and restore it to its natural color, using as far as possible, vegetable ingredients, and leaving out entirely Ac. Lead or other injurious substances. A. H. Hollister, Madison.

Furnish best method of Palverising Camphor Gum and staining in powdered form. Accepted by R. W. Cheever, Clinton

Pharmaceutical ethics—Paper by F. F. Prentiss, Janesville. Subject—Prescribing over the dispensing counter.

The following committees were then appointed:

Executive Committee—E. B. Heimstreet, Janesville; K. N. Hollister, Delevan; J. Copey, Edgerton; D. C. Griswold, Evansville; W. H. Gates, Milton.

Committee on Drug Market—C. A. Emerson, Beloit; A. J. Roberts, Janesville; W. C. Royden, Rockton, Ill.; S. P. Ide, Evansville; O. L. Woodward, Clinton.

Committee on Papers and Queries—A. H. Hollister, Madison; F. F. Prentiss, Janesville.

Committee to report at July meeting.

Executive Committee was instructed to procure Charter for the Secretary.

The following officers were then elected:

President—F. S. Fenton, Beloit.

First Vice President—A. H. Hollister, Madison.

Second Vice President—J. Spencer Ide, Evansville.

Third Vice President—W. P. Clarke, Milton.

Treasurer—O. L. Woodward, Clinton.

Permanent Secretary—E. B. Heimstreet, Janesville.

Local Secretary—A. H. Hollister, Madison.

Treasurer's report was read showing the balance in Treasury.

On invitation the Society decided to hold a two days session, July 15th and 16th, 1880, at Madison.

On motion the Secretary was instructed to send notices to all druggists in the State, inviting them to attend the meeting.

Papers were then read by C. A. Emerson, Beloit; Spencer Ide, Evansville; A. J. Roberts, Janesville; W. M. Eldridge, Janesville; E. B. Heimstreet, Janesville; W. C. Royden, Rockton, Ill.; A. H. Hollister, Madison; O. L. Woodward, Clinton. L. A. Lange, of Chicago, read a very interesting paper on the condition of the drug market—giving the most important changes in prices during the past year. Mr. E. B. Stuart, of "The Chicago Druggist," made a few remarks on the use of the microscope in chemistry, which were listened to with great interest by the members present.

Mr. Stewart, who has charge of the Chemical Laboratory of Lord Stonenberg & Co., is Secretary of the Chicago Microscopical Society, and is an expert in the use of that instrument. He exhibited a very fine microscope and demonstrated before the Association how it can be used to excellent advantage in every day business in detecting adulteration in drugs and chemicals, without subjecting them to chemical analysis.

The retiring President, Dr. C. M. Smith then addressed the Society with a few well timed remarks, congratulating them on the progress made during the past year, etc.

The meeting was more largely attended than any of the previous ones, and proved of much more interest to all concerned. There was quite a display of chemicals and drugs from different houses.

Facsimile of a page of Secretary Heimstreet's record and scrap book, now in possession of the Historical Committee of the Wis. Pharm. Ass'n. A newspaper account of the annual meeting held at Janesville at which it was determined to meet at Madison and to issue a call for the organization of a state association.

had not been represented at any of the previous meetings. A number of papers are recorded as having been read, and an invitation to hold the next meeting in Madison July 14th and 15th was accepted. The Secretary was instructed to send notices to all druggists in the state inviting them to attend the meeting.

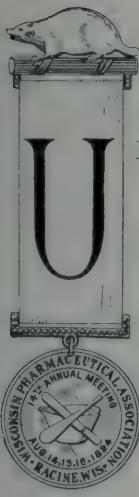
Such a circular was issued and the Madison meeting was held. Naturally the principal event of this meeting became the organization of the state association as announced in the circular. As to the fate of the Rock County Pharmaceutical Society, the record of the last meeting in the old record book contains the statement that the next meeting was to be held in Beloit, and that one member gave notice that he would move to change the by-laws to the effect that instead of holding meetings quarterly, they should be held annually. Thus the early active career of this local association, which so rapidly outgrew its local character, practically came to an end with the formation of our present state association. The names of the officers of the present local society will be found on page 58.



Cut used on the letterhead of the Historical Committee of the Wisconsin Pharmaceutical Association, representing an apothecary shop during the sixteenth century.



A pharmaceutical war relic from Camp Randall, now the athletic field of the University. The larger package, "Chlorinium," or "common salt mixture," is from the laboratory of E. R. Squibb, the smaller package from the U. S. A. Medical Dept. After the war they were purchased by Dunning & Sunner of Madison, and later presented to the historical collection of the School of Pharmacy.



Badge of the  
State Ass'n,  
worn at the  
Racine meeting  
in 1880.

## Wisconsin Pharmaceutical Association.

PON the invitation of Mr. A. H. Hollister, the Rock County Pharmaceutical Association, at its meeting in Janesville, January 15th, 1880, resolved to meet in Madison July 14th and 15th of the same year. At the same time the Secretary, Mr. E. B. Heimstreet, was instructed to send notices to all druggists of the state inviting them to attend the meeting. The circular reproduced on page 29 tells its own story.

At the time appointed some sixty druggists met in the Assembly Chamber of the Capitol and organized themselves on the afternoon of July 14th into the Wisconsin Pharmaceutical Association. The first roll of members contained seventy-five names, six being from Chicago. Thirty-two Wisconsin cities and villages were represented, as follows:

**MILWAUKEE**—B. Bartley, H. H. Button, Adam Conrath, A. Cunradi, John A. Dadd, H. B. Drake, H. F. Drake, J. R. Drake, Fred Esau, A. N. Ritz, Henry Schranck, Otto Schorse, C. M. White.

**MADISON**—Chas. H. Avery, J. W. Curtis, A. H. Hollister, Andrew Mayers, Chas. A. Naffz, A. A. Pardee, E. D. Pardee, Edwin Sumner.

**BELoit**—C. A. Emerson, F. S. Fenton, C. A. Smith, E. R. Smith.

**JANESVILLE**—W. M. Eldredge, E. B. Heimstreet, F. F. Prentice, A. J. Roberts.

**CAMBRIA**—E. Evans, W. Rees.

**FOND DU LAC**—A. D. Land, J. C. Huber.

**MAZOMANIE**—F. A. Smith, A. J. Window.

**MENOMINEE**—G. Tonnar.

**OSHKOSH**—John Banman, W. L. Williams.

PLATTEVILLE—G. W. Wright.  
 PORTAGE—W. H. Edwards, J. Graham.  
 RACINE—D. G. Marlott, R. J. Robinson.  
 ALBANY—W. C. Roberts.  
 ARENA—E. J. Edwards.  
 CHILTON—H. Rollman.  
 CLINTON JUNCTION—O. S. Woodward.



JOHN A. DADD\*—Milwaukee.  
 President, 1880—'81.

DE PERE—J. Pepps.  
 EVANSVILLE—D. C. Griswold.  
 GENEVA LAKE—W. H. Hammersley.  
 GREEN BAY—J. Robinson.  
 KENOSHA—F. Robinson.  
 LA CROSSE—T. H. Spence.  
 MAYVILLE—R. Sauerherring.  
 MAUSTON—H. H. Penniman.  
 MILTON—W. P. Clark.  
 MILTON JUNCTION—W. H. Gates.  
 NEW LISBON—J. Morrison.  
 OCONOMOWOC—F. B. Brown.  
 PEWAUKEE—H. D. Sykes.  
 RANDOLPH—J. A. Lightner.  
 RICHLAND CENTER—H. B. Allen.

\* Deceased.

DEAR SIR:-

You are requested to attend a meeting of the Druggists of the State, to be held in Madison, July 14th and 15th, for the purpose of organizing a State Pharmaceutical Association.

Every effort is being made to make this meeting a successful and profitable one, and there is every indication of a large attendance.

Reduced rates have been secured on the M. & St. P., & C. & N. W. R. Roads *i.e.*, full fare one way and return on certificate of Secretary at one-fifth fare. Special arrangements have been made for hotel accommodations. The meetings will be held with the Rock Co. Pharmaceutical Association in the Assembly chamber, and as nearly as practicable, the following program will be observed:

**WEDNESDAY, JULY 14TH.**

10 a. m.—Meeting of the Rock Co. Pharmaceutical Association—Election of officers—Report of Committees—Miscellaneous business.

2 p. m.—Meeting called to order, and temporary chairman elected—constitution and by-laws for State Association adopted—Election of officers—appointment of committees—miscellaneous business.

Address by E. B. Stuart (of the "Chicago Druggist," and Sec. of Ill. Microscopical Association)—Subject, "The Application of the Microscope in Pharmacy."

**THURSDAY, JULY 15.**

10 a. m.—Reports of committees—miscellaneous business.

2 p. m.—Joint session of the "Wisconsin Pharmaceutical Association," and the "Rock Co. Pharmaceutical Association"

Address by F. S. Fenton, of Beloit, President of the Rock Co. Association.

Reading of papers as follows :

Formula for Syrup, Rhubarb and Potassa.

E. R. SMITH, Beloit.

Cause of precipitation in U. S. P. Tincture of Rhubarb.

W. P. CLARK, Milton.

Cause of precipitation in Tinctures of Capsicum and Black Cohosh, and how it may be remedied. O. L. WOODWARD, Clinton.

Formulas of Elixirs of Lactoptein.

A. J. ROBERTS, Janesville.

It is expected, there will be a fine display of Drugs, Chemicals and Druggist's sundries as the following houses have already signified their intention of being represented and placing goods on exhibition.

Sharp & Smith, Chicago, Surgical Instruments.

Hurlbut & Co., Chicago, Chemicals and Sundries.

C. H. Strong & Co., Chicago, Specialties and Sundries.

Henry Thayer & Co., Cambridgeport, Mass., Fluid Extracts & Pills

J. C. Huber & Co., Fond du Lac, Herbs.

Morrison, Plummer & Co., Chicago, Drug and Drug Sundries.

Enterprise Manufacturing Co., Phil., Drug Mills and Presses.

Parke, Davis & Co., Detroit, Pills and Extracts.

C. H. Penfield & Co., Phil., Trusses and Braces.

Binghamton Oil Co., Petroleum Products.

Irondequoit Wine Co., Rochester, N. Y., Wines.

Exhibitors of objects of interest to Pharmacists, are requested to send goods prepaid to A. H. Hollister, Madison, Wis., who will see that they are properly displayed and disposed of or returned, according to instructions of exhibitors.

In addition to other attractions offered, it is contemplated to arrange for an excursion on the Lake, and visit the Hospital of the Insane, and other points of interest.

You are requested to acknowledge receipt of this, and state if you intend being present so that arrangements may be made for reduced railroad fares.

Persons may be accommodated with board at private houses, at reasonable rates, by addressing A. H. Hollister, Madison, Wis.

Any further information in regard to meeting, will be cheerfully supplied by addressing E. B. HEIMSTREET, Janesville, Wis.

Facsimile of the call sent to the druggists of Wisconsin to meet at Madison for the purpose of organizing a state association. From Secretary Heimstreet's record and scrap book now in possession of the Historical Committee of the State Pharm. Ass'n.

STEVENS POINT—J. Cadman.

WAUKESHA—I. M. White.

STOUGHTON—O. N. Falk.

WEST BLUE MOUND—T. Williams.

WHITEWATER—H. Warne.

CHICAGO—H. H. Chandler, W. J. Keener, L. A. Lange, W. A. Sallade, C. H. Strong, E. B. Stuart.

The above names show that geographically the representation was as good as could be expected. Numerically the representation was much better than that of many similar gatherings to-day, not only in



E. B. HEIMSTREET—Janesville.  
Secretary 1880—1899.

W. P. CLARKE—Milton.  
Treasurer 1882—1900.

this state, but in numerous other states of the Union. The report of the Secretary of the Board of Pharmacy for 1882 enumerates 1,139 registered persons, of whom 943 were "registered pharmacists," eight "minors" and 188 "assistant pharmacists." Of the names enumerated not a few are those of men whose connection with Wisconsin pharmacy will be long remembered. Some of them are still active members of the association to-day. Others, like Mr. John A. Dadd, of Milwaukee, the first President of the association, and Mr. Richard T. Robinson, of Racine, upon whose recommendation as second President the School of Pharmacy at the University was established, have left the ranks of

the pharmaceutical toilers, but their noble example has been more than once an encouragement to their younger followers.

The places of meeting, also the names of the Presidents, are given in the following table:

|                     |                |
|---------------------|----------------|
| 1880—Madison.....   |                |
| 1881—Milwaukee..... | John A. Dadd.  |
| 1882—Oshkosh.....   | Fred Robinson. |



FRED ROBINSON\*—Kenosha.  
President 1881—'82.

|                           |                 |
|---------------------------|-----------------|
| 1883—La Crosse.....       | George Baumann. |
| 1884—Madison .....        | Edwin Sumner.   |
| 1885—Janesville .....     | George Howard.  |
| 1886—Fond du Lac.....     | F. F. Prentice. |
| 1887—Milwaukee.....       | F. M. Givens.   |
| 1888—Palmyra Springs..... | R. D. Pulford.  |
| 1889—Portage.....         | J. C. Huber.    |
| 1890—Appleton.....        | W. M. Edwards.  |

\* Deceased.

- 1891—Milwaukee.....R. A. Sauerhering.  
 1892—Oshkosh .....C. Widule.  
 1893—Fond du Lac.....Henry Rollmann.  
 1894—Racine.....E. D. Pardee.  
 1895—Sheboygan.....A. H. Hollister.  
 1896—Stevens Point.....F. W. Thieman.



GEORGE BAUMANN—Oshkosh.  
 President 1883—'84.

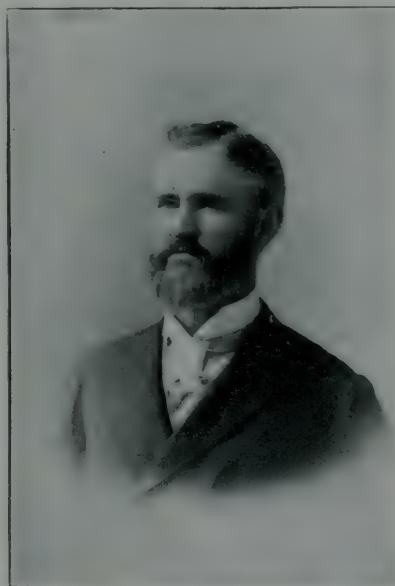
- 1897—Green Bay.....Jos. Hammel.  
 1898—Waupaca .....Chas. Pfeifer.  
 1899—Janesville.....R. M. Dadd.  
 1900—Waupaca.....C. A. Spencer.

For twenty years Mr. E. B. Heimstreet, of Janesville, was the General Secretary of the association, being succeeded last year by Mr. H. Rollmann, of Chilton. Both are charter members of the association and Mr. Heimstreet was especially active in its organization. His

work was a labor of love and his annual re-election for two decades shows that his services were appreciated.

With the exception of the first two years, Mr. W. P. Clarke, of Milton, has served as Treasurer.

The objects of the association are set forth in Article I of the constitution of the new organization, and are as follows:



EDWIN SUMNER—Madison.  
President 1884—'85.

Section 1. This Association shall be called the Wisconsin Pharmaceutical Association. Its aim shall be to unite the educated and reputable Pharmacists and Druggists in the following objects:

Sec. 2. To encourage proper relations between Druggists, Pharmacists, Physicians and the people at large, which shall promote the public welfare and tend to mutual strength and advantage.

Sec. 3. To improve the science and art of Pharmacy by diffusing scientific knowledge among druggists and apothecaries, fostering pharmaceutical literature, developing talent, stimulating discovery and invention, and encouraging home production and manufacture in the several departments of the drug business.

Sec. 4. To regulate the system of apprenticeship and employment, so as to prevent as far as is practicable, the evils flowing from deficient training in the responsible duties of preparing, dispensing and selling medicines.

Sec. 5. To uphold standards of authority in the education, theory and practice of pharmacy.

Sec. 6. To create and maintain a standard of professional honesty equal to the amount of our professional knowledge, with a view to the highest good, and greatest protection to the public.



GEORGE HOWARD\*—La Crosse.  
President 1884-'85.

It would be impossible, in the brief space allotted, to enter into a detailed presentation of how far the association has lived up to its principles. All that can be accomplished here is to indicate briefly some of the more important features of the association's activities.

1. Academically, it might be made a question of debate as to whether the association has really "united the educated and reputable pharmacists" of the state. It certainly is true that many "educated and reputable" pharmacists of Wisconsin are not members of the state association and that only a small fraction of the members attend the annual meetings with any degree of regularity. Nevertheless, it can-

\* Deceased.

not be disputed that, although the association has not realized its ideals in this respect, it has done much for pharmacy in this state and consequently for the people at large. The very fact that comparatively few pharmacists have accomplished so much is very gratifying and should induce every pharmacist who has the interest of his calling at heart to join the association and do his share in the work that remains to be done.



F. F. PRENTICE—Janesville.  
President 1885-'86.

2. The principles expressed in Sections 2 and 6 were crystallized in 1890 by the adoption of a Code of Ethics.

The members of the Wisconsin Pharmaceutical Association considering it necessary that some mutual understanding should exist in regard to the moral principles guiding them in their profession, hereby agree upon the following code of ethics.

1. We accept the U. S. Pharmacopœia as our standard and guide for all official preparations, and recognize a variance from its rules only in exceptional cases where sufficient authority has proved some other process more reliable to attain the same end. (This section is not intended to interfere with the

dispensing of preparations or medicines ordered in accordance with foreign pharmacopœias.)

2. We discountenance all secret formulas between physician and pharmacist, and consider it our duty to communicate such to each other when requested.

3. We distinctly repudiate the practice of allowing physicians a percentage in any form, on their prescriptions or patronage, as being derogatory to both professions, which practice is unjustly at the expense of the suffering parties.



F. M. GIVENS—Fond du Lac.  
President 1886—'87.

4. We will endeavor as far as possible to refrain from compromising the professional reputation of any physician, and expect, in return, the same courtesy from him.

5. As the apothecary should be able to distinguish between good and bad drugs, in most cases, and as the substitution of a weak or inert for an active one may, negatively, be productive of serious consequences, we hold that the sale of impure drugs or medicines, from motives of competition or desire of gain, when pure articles of the same kind may be obtained, is highly culpable and that it is the duty of every honest apothecary or druggist to expose all such fraudulent acts as may come to his knowledge.

6. The apothecary should be remunerated by the public for his knowledge and skill, and his charges should be regulated by the time consumed in preparation as well as by the value of the article sold. Although local and other circumstances necessarily affect the rate of charges at different establishments, no apothecary should intentionally undersell his neighbors with a view to their injury.

7. Recognizing the value of alcohol as a therapeutic agent, and the propriety of its being dispensed as such by pharmacists, yet deplored the widespread evil resulting from its intemperate use in its hundred insidious forms,



R. D. PULFORD\*—Mineral Point.  
President 1887—'88.

we condemn any attempt to make it a prominent feature of our business as unprofessional, and we denounce the loose practise of allowing it to be used on the premises in any shape as a beverage as degrading, and we urge upon pharmacists the duty of exercising at all times a conscientious care in dispensing a drug liable to such dangerous abuse.

8. Believing that some means should be adopted to enforce the provisions of this code, violations of the same may be reported at any annual meeting of this Association, when the accused may be heard in his own defence, when, if found guilty he may be censured, suspended or expelled by a vote of two-thirds of the members present.

\* Deceased.

3. The association has lived up to its objects as expressed in Section 3 in various ways. Its members have prepared papers on a large variety of topics and these papers have been published in the Proceedings. To comment on these papers ever so briefly is out of the question. An enumeration of the titles of the papers, arranged alphabetically according to the names of their authors, should be of advantage, since the papers are scattered through twenty volumes of the Proceedings.



J. C. HUBER—Fond du Lac.  
President 1889-'90.

|                                                                                                                                                                                                              |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Abbott, C.—Citronellic acid .....                                                                                                                                                                            | 1892, p. 62 |
| ——— Will it pay a girl to learn the drug business?.....                                                                                                                                                      | 1894, p. 77 |
| Anderson, O. W.—Ciftronelloxime.....                                                                                                                                                                         | 1893, p. 57 |
| Ascott, G. W.—Benzylidene dipiperidine.....                                                                                                                                                                  | 1893, p. 70 |
| Avery, C. H.—Is phosphoric acid and dilute phosphoric acid generally free from arsenic acid?.....                                                                                                            | 1884, p. 29 |
| Bantley, B.—*Gelsium root. Does the green root possess any advantage over the dry? Give formula for fluid extract and tincture .....                                                                         | 1881, p. 30 |
| Bechmann, C. R.—*Elixir pyrophosphate of iron quinine and strychnine containing 2 grains pyrophosphate of iron, 1 grain quinine and 1.60 grain strychnine to the fluid drachm that will not precipitate..... | 1886, p. 44 |
| ——— *Does the mercurial ointment of commerce contain the required amount of mercury?.....                                                                                                                    | 1892, p. 39 |

\* Answer to query.

- Bernhard, C. H.—\*Chlorodyne. Give the different formulas published and suggest a standard for this association to adopt 1883, p. 23  
 —— Citrate of iron and quinine, "English style," and the U. S. P. .... 1884, p. 30  
 —— The purity of commercial essential oils ..... 1887, p. 66  
 Bernhard, C. A.—\*Formula for syrup of hypophosphites, U. S. P. (calcium, sodium and potassium) that will not precipitate 1886, p. 40  
 Bliss, W. P.—The mines and ores at Mineral Point, Wisconsin, with a description of the zinc work, for the manufacture of zinc oxide, at the same place ..... 1891, p. 36



W. M. EDWARDS—Portage.  
President 1890-'91.

- Boberg, O. J. S.—Distilled water in the pharmacy: To what extent is it used? ..... 1898, p. 46  
 Bossingham, A.—On the chemical composition of Kava Kava ..... 1896, p. 53  
 Brennecke, H. A.—Mixed halides of lead ..... 1892, p. 87  
 Bruun, H. N.—The volatile oil of Canella alba ..... 1893, p. 36  
 Buchta, C. G.—\*Why so large a proportion of the pharmacists of Wisconsin are not members of the Pharmaceutical Association? ..... 1897, p. 51  
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The science and art of pharmacy in Wisconsin have likewise been improved indirectly by the association by securing the establishment of a department of pharmacy at the State University in 1883. If the association had accomplished nothing more than this it would have done enough to justify its organization and existence. Though individually many members of the association have fostered pharmaceutical literature by subscribing to pharmaceutical journals and the purchase of technical and professional books, collectively little has been done. The association has no library. Such books as proceedings of pharmaceutical societies, etc., that had accumulated in the Secretary's office have been deposited with the Library of the State University.

Other members of the association have likewise contributed liberally to the library of the School of Pharmacy. It is to be hoped that such donations may continue; for a pharmaceutical library permanently located at the University will do more good than one that will have to be moved with changes in the offices of the association. Home productions and manufactures have been indirectly fostered, especially through the organization of the Wisconsin Pharmacal Co., an account of which will be given in another chapter.

4. Though several of the Presidents of the association called attention to the necessity of maintaining a higher standard in the selection of apprentices, nothing very definite has been accomplished in this direction by the association as such. No provision has so far been made in the state law to regulate the selection of apprentices by demanding an educational requirement. The only action that appears to be on record in regard to this subject is a resolution drafted by a committee and adopted by the association at its Racine meeting in 1894.

"The evils following from deficient training in the responsible duties of preparing, dispensing and selling medicine" were prevented in no small measure by securing the passage of a law regulating the practice of pharmacy, which included the establishment of a Board of Pharmacy. If, to quote a present member of this board, nothing more has been accomplished by the examinations of this board than to weed out the most incompetent, this very fact stands greatly to the credit of the association.

5. Under Section 5 the work, e. g., of the Committee on Adulterations should be mentioned. Though the association has no police authority, yet it can call attention to drugs and preparations that fall beneath the pharmaceutical standard and thus exert a wholesome educational influence. The first few volumes of the Proceedings especially show that considerable interest was taken in this subject by members of the association. The committee was reorganized at the Sheboygan meeting so as to give it more permanence and has a large field for excellent work.

The above brief outline of the activity of the association, though very imperfect, will have to suffice. The present constitution and by-laws are herewith appended.

**ARTICLE I.**

Section 1. This association shall be called the Wisconsin Pharmaceutical Association. Its aim shall be to unite the educated and reputable Pharmacists and Druggists in the following objects:

Sec. 2. To encourage proper relations between Druggists, Pharmacists, Physicians and the people at large, which shall promote the public welfare and tend to mutual strength and advantage.

Sec. 3. To improve the science and art of Pharmacy by diffusing scientific knowledge among druggists and apothecaries, fostering pharmaceutical literature, developing talent, stimulating discovery and invention, and encouraging home production and manufacture in the several departments of the drug business.

Sec. 4. To regulate the system of apprenticeship and employment so as to prevent, as far as practicable, the evils flowing from deficient training in the responsible duties of preparing, dispensing and selling medicines.

Sec. 5. To uphold standards of authority in the education, theory and practice of pharmacy.

Sec. 6. To create and maintain a standard of professional honesty equal to the amount of our professional knowledge, with a view to the highest good and greatest protection to the public.

**ARTICLE II.**

Section 1. This association shall consist of active, associate, life and honorary members, and shall hold its meetings annually.

Sec. 2. The officers of the association shall be a President, two Vice-Presidents, a Permanent Secretary, a Local Secretary, a Treasurer, all of whom, with the exception of the Permanent Secretary, shall be elected annually, and hold office until an election of successors.

The Permanent Secretary shall be elected to hold office permanently during the pleasure of the association.

Sec. 3. Every proposition to alter or amend this constitution shall be submitted in writing, and may be balloted for at the next regular session, when, upon receiving the votes of three-fourths of the members present, it shall become a part of the constitution.

**ARTICLE I.****DUTIES OF PRESIDENT AND VICE-PRESIDENT.**

Section 1. The President shall preside at all meetings of the association. In his absence or inability, one of the Vice-Presidents, or in the absence of all, a President pro tem. shall perform the duties of President.

Sec. 2. In the absence of the permanent Secretary, the President shall appoint a recording secretary, pro tem.

Sec. 3. In meeting the President shall take the chair at the proper time, announce all business, receive all proper motions, resolutions, reports and communications, and order the vote on all proper questions at the proper time.

Sec. 4. In all balloting and on all questions upon which the yeas and nays are taken, the President is required to vote, but his name shall be called last. In other cases he shall not vote, unless the members be equally divided, or unless his vote, if given to the minority, will make the decision equal, and in case of such equal division, the motion is lost.

Sec. 5. He shall enforce order and decorum; he shall decide all questions of order, subject to the right of appeal, unless in cases where he prefers to submit the matter to the meeting; decide promptly who is to speak, when two or more members arise at the same moment: and be careful to see that business is brought forward in proper order.

Sec. 6. He shall have the right to call a member to the chair in order that he may take the floor in a debate; he shall see that the constitutions and by-laws are properly enforced.

Sec. 7. He shall appoint all committees, unless provided for in the by-laws or otherwise directed by the association.

Sec. 8. He shall sign the certificate of membership and countersign all orders on the treasurer; he shall obey the instructions of the association, and shall authenticate by his signature, when necessary, its proceedings.

Sec. 9. He shall present at the annual meeting an address, embodying general facts and events on some appropriate subject of interest to the profession and the commercial interests as may seem to him suitable.

Sec. 10. He shall appoint five (5) delegates (with power to name substitutes) to attend the annual meeting of the American Pharmaceutical Association, of which he shall be chairman ex officio; he shall also appoint five delegates to each adjacent state to visit the Pharmaceutical Convention of such state, and to the Wholesale Drug Association.

## ARTICLE II.

### DUTIES OF PERMANENT SECRETARY.

Section 1. The Permanent Secretary shall keep fair and correct minutes of the proceedings of the meetings, and carefully preserve on file all reports, essays and papers of every description received by the association, and attend to the necessary correspondence, to sign all certificates of membership.

Sec. 2. He shall read all papers handed him by the President for that purpose, and shall notify the chairman of every special committee of his appointment, giving him a list of his colleagues and stating the business upon which the committee is to act, and shall notify every member of the time and place of each meeting.

Sec. 3. He shall be ex officio a member of the executive committee, and shall be charged with editing, publishing and distributing the proceedings of the association, under the direction of the executive committee.

Sec. 4. The Permanent Secretary shall receive from the Treasurer, during his term of office, an annual salary of seventy-five (\$75.00) dollars and the amount of his necessary expenses incident to the meetings, in addition to his salary.

## ARTICLE III.

## LOCAL SECRETARY.

Section 1. A Local Secretary should be elected at each meeting, and shall reside at or near the place where the next meeting of the association is to be held.

Sec. 2. He shall assist the Permanent Secretary in his duties, and shall co-operate with any local committee in making arrangements for the next meeting, shall correspond with the chairman of the several committees and with other members in advance of the meeting for the promotion of its object, and shall have the custody of specimens, papers and apparatus, destined for use as exhibition at the meeting.

Sec. 3. An exhibition of articles interesting to pharmacists may be had, should the association have so determined, under the directions of the local secretary, but he shall decline the exhibition of secret and proprietary preparations and such other articles as he may deem it advisable to refuse admission.

## ARTICLE IV.

## TREASURER.

Section 1. The Treasurer shall select and take charge of the funds of the association, and shall hold, sign and issue the certificates of membership.

Sec. 2. He shall pay out no money of the association, except on the order of the Secretary, countersigned by the President, and accompanied by the proper vouchers.

Sec. 3. He shall report to the executive committee, previous to the annual meeting of the association, the names of such members as have failed to pay their dues for two (2) years.

Sec. 4. He shall present to the executive committee, previous to each annual meeting, a statement of his account, that the same may be audited.

Sec. 5. The Treasurer shall give to the executive committee bonds in double the sum likely to come in his hands during his term of office, conditioned upon the faithful discharge of his duties and the safe keeping of the funds of the association.

Sec. 6. The Treasurer shall receive from the association the amount of his necessary expenses incident to the meeting.

## ARTICLE V.

Section 1. There shall be appointed four (4) standing committees, namely: An Executive Committee, and a Committee on Drug Market, each consisting of five (5) members; a Committee on Queries, to consist of four (4) members; a Committee on Legislation, consisting of three (3) members; a Committee on Trade Interests, consisting of ten (10) members, who shall be presidents of the district or county pharmaceutical associations.

Sec. 2. The Executive Committee, of which the Permanent Secretary shall be a member, shall have charge of the revision of the roll, the investigation of the application for membership, and also act as a general finance committee.

Sec. 3. They shall present at each annual meeting, a revised roll of members and the names of any who have been disconnected with this association.

Sec. 4. The Executive Committee shall, in conjunction with the Secretary, attend to the editing and publishing of the Proceedings of the annual meeting of the association, which shall contain a correct roll of members, full minutes of the several sessions, the President's address, and the report of committees, the report of the Treasurer and Secretary, together with such other addresses, papers and discussions not ordered by the association to be published as the committee may deem advisable to publish, and shall fix the price at which the publication shall be sold, and to take care that each member of the association not in arrears is furnished with one copy of the publication free of charge. This constitution and by-laws shall be published in each annual publication of the association.

Sec. 5. They shall furnish to each member not in arrears, one copy of the annual publication of the Proceedings which shall contain the correct roll of members, the full minutes of the several sessions, the address of the President, and the report of the committees, together with such addresses, papers and discussions as the committee may deem it advisable to publish, and to fix a price at which the Proceedings shall be sold.

Sec. 6. The Committee on Papers and Queries shall receive all reports of standing committees and all papers for the association and shall arrange the time most appropriate or convenient for reading them. They shall report at each meeting a proper number of questions of scientific and practical interest, the answers to which may advance the interests of pharmacy, and shall procure the acceptance of as many such questions for investigation as possible.

Sec. 7. The Committee on Legislation shall oversee all questions regarding the legislation that shall be referred to them, and shall look after the interests of the association during the session of the state legislature. The necessary expenses of this committee while engaged in this work shall be paid by the association.

## ARTICLE VI.

### MEMBERSHIP.

Section 1. Members of the association are divided into two classes, viz., active and associate. Active members to be those actively engaged in the drug business in Wisconsin, either as proprietors or clerks. Associate members to be all others interested in the association or in pharmacy work. Active members to have a vote in the election of officers, nominations on Board of Pharmacy, fixing place of next meeting, and all other business coming before the association. Associate members to have all privileges except a vote.

Sec. 2. Every registered Pharmacist or druggist of good moral character and professional standing, whether in business on his own account, retired from business, or employed by another, and those teachers of pharmacy, chemistry or botany who may be especially interested in pharmacy and *materia medica*, who, after duly considering the objects of this association and the obligations of its constitution and by-laws, are willing to subscribe to them, are eligible to membership, provided that no one whose name has been

dropped from the roll shall be eligible to membership until payment has been made of the sum of \$4.00, when he shall be reinstated by a two-thirds vote of the association.

Sec. 3. Any person eligible to membership may make application in writing, with the endorsement of any two members of the association in good standing, to the Permanent Secretary, who shall report his application to the Executive Committee. If, after investigating his application and standing, they should approve his election, they shall, at the earliest time practicable, report his name to the association, and he may be elected by a two-thirds vote of the members present, on ballot.

Sec. 4. No person shall be a member of this association nor shall his name be placed on the roll, until he shall have signed the constitution and by-laws, and paid into the treasury the sum of two dollars as an initiation fee.

Sec. 5. Every member shall pay annually, in advance, to the Treasurer the sum of two dollars as an annual contribution, and shall lose his membership by neglecting to pay said contribution for two years.

Sec. 6. Any member not in arrears to this association, who shall pay into the treasury the sum of twenty dollars, may become a life member, and shall be exempted from all future annual contributions.

Sec. 7. Members shall be entitled, on the payment of fifty cents, to receive a certificate of membership, signed by the President, Vice-President, Secretary and Treasurer.

Sec. 8. Resignation of membership shall be made in writing to the Permanent Secretary or Treasurer, but no resignation shall be accepted from any one who is in arrears to the treasury.

All resignations shall be acknowledged in writing by the officer who receives them, and shall be reported at the next meeting.

Sec. 9. Any member may be expelled for improper conduct or the violation of the constitution and by-laws adopted by the association, but, no member shall be expelled unless he shall have received previously one year's notice of the charges against him. For expulsion a two-thirds vote of all the votes cast is required.

Sec. 10. Pharmacists, chemists and other scientific men who may be thought worthy of the distinction, may be elected honorary members. Their names shall first be submitted to the Executive committee, and should they deem it advisable, presented by them for action to the association. They shall not, however, be required to contribute to the funds, nor shall they be eligible to hold office or vote at meetings.

## ARTICLE VII.

### MEETINGS.

Section 1. The meetings shall be held annually, provided that in case of failure in this from any cause, the duty of calling the association together shall devolve upon the President or upon one of the Vice-Presidents, with the advice and consent of the Executive Committee. It is the duty of the Secretary to call a special meeting of the Association when a petition, signed by

ten members and stating the object, is duly presented and filed with him, in which case the Secretary has to call a meeting within thirty days, and notify all members of the time, place and object of the meeting.

Sec. 2. At any annual or special meeting of this association, the presence of twenty members shall constitute a quorum for the transaction of business.

Sec. 3. A committee of five shall be appointed by the President to examine and report upon specimens exhibited.

#### ARTICLE VIII.

##### ORDER OF BUSINESS.

Section 1. The President shall call the meeting to order. B—Roll call of members by the Secretary. C—Reading the minutes of the previous meeting by the Secretary, which may then be amended and approved. D—Address by the President. E—Report of committees, and nominations and election of committees. F—Presentation by the Executive Committee of names of candidates for membership, if recommended, when a ballot shall be had for the election of the same. G—Report of special committees and reading of papers. H—Treasurer's report. I—Secretary's report. J—Report of the Executive Committee.

Sec. 2. At the last session of each annual meeting, immediately after the reading of the minutes of the preceding session, it shall be the duty of the presiding officer to call upon the Association to nominate officers for the ensuing year, and the Association shall thereupon proceed to elect by ballot the officers for the ensuing year, a majority of all the votes cast being necessary for a choice.

Sec. 3. The officers elected, shall thereupon take their respective places.

#### ARTICLE IX.

##### RULES OF ORDER AND DEBATE.

Section 1. The ordinary rules of the parliamentary bodies shall be enforced by the presiding officer, from whose decision, however, appeals may be taken if requested by two members, and the meeting shall thereupon decide without debate.

Sec. 2. When a question is regularly before the meeting and under discussion, no motion shall be received; but to adjourn, to postpone to a certain day, to commit, to amend, to postpone indefinitely, which several motions have precedence in the order which they are arranged, a motion to adjourn shall be decided without debate.

Sec. 3. No member shall speak twice on the same subject, except by permission, until every member wishing to speak has spoken.

Sec. 4. On the call of any two members, the yeas and nays shall be ordered, when every member shall vote, unless excused by a majority of those present, and the names and manner of voting shall be entered on the minutes.

## ARTICLE X.

Section 1. On all points of order as are not noticed in these by-laws the association shall be governed by the established usages in all assemblies governed by parliamentary rulings.

Sec. 2. Every proposition to alter or amend these by-laws shall be submitted in writing, and may be balloted for at any subsequent session; when, upon receiving a vote of three-fourths of the members present, it shall become a part of the by-laws.

## LOCAL SOCIETIES.

In addition to the Milwaukee and Rock Co. Pharmaceutical Societies, other local associations have been organized from time to time in order to meet special demands. Thus e. g. the meetings of the State Association in various parts of the state have caused the temporary organization of the druggists of the places visited. On several occasions special efforts were made to organize all of the druggists of the state in county associations. The latest attempt of this kind has been made in connection with the National Association of Retail Druggists. As a result of this effort the following county associations now exist. They are herewith enumerated alphabetically with their officers.

## CALUMET COUNTY.

Pres.—H. Rollmann, Chilton.  
Sec'y—C. Scarzynski, Brillion.  
Treas.—R. C. Hagemann, Chilton.

## BUFFALO.

Pres.—Fred Voegeli, Fountain City.  
Sec'y—O. A. Unseth, Alma.  
Treas.—A. Bergsell, Alma.

## BURNETTE.

Pres.—Nordal Unseth, Grantsburg.  
Sec'y-Treas.—

## FLORENCE.

Pres.—J. S. Penberthy, Florence.  
Sec'y-Treas.—T. D. Rowe, Florence.

## GREEN.

Pres.—A. Truckenbrod, Monroe.  
Vice-Pres.—A. G. Ellis, Brooklyn.  
Sec'y—A. F. Lichtenwalner—Monroe.  
Treas.—W. D. Roberts, Albany.

## LA FAYETTE.

Pres.—Dr. Hayden, Shullsburg.  
Vice-Pres.—John Marriott Gratiot.  
Sec'y—E. Van Wegenen, Darlington.  
Treas.—F. A. Gerritt, Argyle.

## MARATHON.

Pres.—E. D. Pardee, Wausau.  
Vice-Pres.—C. S. Blair, Mosinee.

Sec'y—G. Naffz, Wausau.  
Treas.—P. J. Taucher, Marathon City.  
MARIETTE.

Pres.—H. G. Lemeke, Marinette.  
Sec'y—Wm. Steinle, Marinette.  
Treas.—W. J. Raiche, Marinette.

## MILWAUKEE.

Pres.—W. H. Barr, Milwaukee.  
Vice-Pres.—Edw. Kettler, Milwaukee.  
Sec'y-Treas.—H. Lambeck, Milwaukee.

## POLK.

Pres.—L. A. Hoffmeier, Cushing.  
Sec'y and Treasurer—W. F. Dewey.

## PORTAGE.

Pres.—Jas. R. Congdon, Stevens Point.  
Vice-Pres.—Edgar Starks, Amherst.  
Treas.—M. F. Pierce, Plover.  
Sec'y—O. F. Meyer, Stevens Point.

## ROCK.

Pres.—W. P. Clarke, Milton.  
Vice-Pres.—J. M. Farnsworth, Beloit.  
Sec'y—Geo. E. King, Janesville.  
Treas.—O. L. Woodward, Clinton.

## TAYLOR.

Pres.—C. G. Suits, Medford.  
Sec'y—Joseph Hammel, Medford.  
Treas.—August Benn—Medford.

## The Wisconsin Pharmaceutical Travelers Association.

Wisconsin ever true to her motto "Forward" was the first state to organize an association of traveling men to work in conjunction with its state association. Unfortunately its early records were destroyed by fire in Milwaukee in 1892. The association is composed of salesmen, wholly identified with the drug trade of Wisconsin. The membership is 324. That veteran and prince of good fellows known to every pill roller in the state, W. A. Salade, served as its President for the first seven years or up to '92 and again in '98. Such pharmaceutical lights as Pflueger, Yates, Estey, Rice and the immortal Joe Curtis have been its presidents.

The association has but one honorary member, C. A. Spencer, of Waupaca. The association conferred this high honor on him for the reason that he sold more Paris green at retail in one year, than Henry O'Neil sold at wholesale. The annual dues are \$20.00, of which \$19.75 are spent to entertain visiting druggists at the annual meeting.

The present officers are: Pres.—F. C. Mitchell, Milwaukee; Vice-Pres.—Ed. F. Mallory, Chicago; Sec'y and Treas.—C. F. Yates, Janesville.

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## Milwaukee Drug Clerks Association.

Through the efforts of Rudolph Best, Chas. Zimmermann, Wm. Segal and Ed. Meinecke, the drug clerks of Milwaukee organized in January 1894 at the Liedertafel Hall. The officers elected were: President—Herman Weber; Vice-President—A. J. Block; Secretary—A. Luebke; Treasurer—R. Best.

The object of the association was to unite the drug clerks of Milwaukee into an association that would look after their special interests. These were partly social, partly professional. At one time the membership included forty-five clerks. A suite of rooms on Chestnut St., between Third and Fourth Sts., was rented, which were furnished as club rooms. The members could come here any afternoon and find the current pharmaceutical journals and other literature. Collections of drugs, chemicals, volatile oils, proprietary articles etc. were donated and were used for selfinstruction and for the regular programme. Meetings were held fortnightly in the evening.

the programme consisting of music, papers, debates, general discussions of pharmaceutical topics etc.

The association, however, had to contend with one great difficulty, viz. the impossibility so to arrange off evenings of the members that a majority could attend the regular meetings.

After a year and a half it was thought best to give up the professional aspect, and a small number organized a bowling club, with Theo. Wannamann as captain, H. Emmerich and E. A. Showalter as Lieutenants, R. Best as Secretary, Martin Kleinhaus as Treasurer. This Club continued for another half year.



Copper scales presented by Dr. Jos. Green of Whitewater to the Historical Committee of the Wis. Pharm. Ass'n. Brought from England and used by him in this state since 1840. Said to be over 100 years old.





## Legislation.

In the introductory chapter and in the account of the Milwaukee Pharmaceutical Society attention is briefly called to the local movement that gave rise to the enactment of a pharmacy law for the City of Milwaukee. A number of German pharmacists, who had received a good education and thorough training in the fatherland, desired to improve the status of pharmacy in the city of their adoption. Individual efforts had not resulted in the success desired. An organization, therefore, the membership of which was to be restricted, was effected, and its intentions were made known.

The restricted character, however, gave rise to offense and a counter movement was started. Whereas, the intention of the German apothecaries had been to improve the status of pharmacy from within, the opposition, consisting of English and German-Americans, sought to achieve the same result from without and above. The Common Council was memorialized by the opposition, and the German apothecaries, recognizing their mistake, invited all Milwaukee druggists to join their association.

The petition was presented to the Common Council September 20, 1875, and was referred to the Board of Health and the City Attorney. On October 18, the City Attorney, Mr. Wallber, reported that "the public good undoubtedly demands such a law," but that under the city charter the Common Council was not authorized to pass an ordinance as requested, but that the subject belonged properly before the Legislature. The subject was, therefore, referred to the Committee on Legislation. This committee reported January 17, 1876, but that part of the committee's report pertaining to the practice of pharmacy was laid over.

Meanwhile the Milwaukee druggists were informed as to the nature of the proposed legislation. The draft of the City Attorney seems to have been based on the New Hampshire law. The Mayor was to appoint three persons, two physicians and one apothecary, as members of a commission. These features proved exceedingly objectionable to the German apothecaries who were in favor of having their affairs controlled by men of their own calling and selected by themselves. The City Attorney was waited upon and a meeting was called at the residence of Mr. Otto A. Thiele, Sunday, January 23rd. A new draft was formulated which was evidently based on the New York law. With but a minor amendment the new draft was approved by the Common Council February 7th, and on the next day it was transmitted to the Chairman of the Milwaukee delegation at Madison. It passed both houses and received executive approval on the tenth day of March.

Those who are specially interested in this subject will find a detailed account in a pamphlet by E. Kremers: "Early phases in the development of pharmaceutical legislation in Wisconsin," which is a reprint of a series of articles in the Pharmaceutical Review. A copy of this first pharmacy law is herewith appended:

AN ACT to regulate the practice of pharmacy and the sale of poisons, and to prevent adulterations of drugs and medicinal preparations in the city of Milwaukee.

The people of the State of Wisconsin, represented in Senate and Assembly, do enact as follows:

SECTION 1. That it shall be unlawful in the City of Milwaukee, for any person, unless a registered pharmacist or registered assistant pharmacist, within the meaning of this act, except as an aid or apprentice, under the immediate supervision of a registered pharmacist, or a registered assistant pharmacist, to retail, compound or dispense medicines or poisons, except as hereinafter provided.

SEC. 2. Any person, in order to be registered in the meaning of this act, must either be a graduate in pharmacy, a practicing pharmacist, or a practicing assistant pharmacist.

SEC. 3. Graduates in pharmacy must be such as have had three years experience in a store where the prescriptions of medical practitioners are compounded and to have attained a satisfactory diploma or credentials of their attainments from a regularly incorporated college or school of pharmacy, either of the United States or of a foreign country, and the degree of which shall be "Graduate in Pharmacy." Practicing pharmacists, in the meaning of

this act, within this city, shall be such persons only as at or prior to the passage of this act, have kept, and continue to keep open store for the compounding and dispensing the prescriptions of medical practitioners, and for the sale of drugs and medicines. Practicing assistant pharmacists shall be such persons of not less than eighteen years of age, as at or prior to the passage of this act have been, or may be employed in the compounding of prescriptions of medical practitioners, in the store of a practicing pharmacist in this city, and shall furnish satisfactory evidence of their attainments and competency to the Board of Pharmacy; and hereafter no person except a graduate in pharmacy, within the meaning of this act, shall be qualified for registration, either as a registered pharmacist or registered assistant pharmacist, unless he shall have had three years experience in a store, where the prescriptions of medical practitioners are compounded, and shall have passed an examination before the Board of Pharmacy, hereinafter provided.

SEC. 4. On or before the first day of August, 1876, the apothecaries of the city of Milwaukee, in a meeting, shall nominate six of the most skilled pharmacists at the time engaged in said business in said city, out of which number the Mayor of the city of Milwaukee shall, within thirty days thereafter, appoint three persons, one for one year, one for two years and one for three years, who shall constitute the Board of Pharmacy. Each year after, in a meeting of the registered pharmacists, two registered pharmacists shall be nominated out of which the Mayor of the city shall appoint one for the term of three years. The members of the Board shall within thirty days after their appointment, individually, take and subscribe an oath of office faithfully and impartially to discharge the duties prescribed by this act. They shall hold office until their successors are appointed and qualified, and in case of vacancy by removal from the city, ceasing to do business as a registered pharmacist, or from any other cause, the Mayor of the city shall fill such vacancies by appointment from the number of registered pharmacists of the city. The members of the Board shall organize for the transaction of business within one week after their appointment, and annually thereafter, by the election of one of their number as President, and one of their number to act as Secretary and Treasurer. The Board shall meet as often thereafter as necessary, at least once every month.

SEC. 5. The duties of the Board of Pharmacy shall be to examine all candidates presenting themselves; to direct the registration by the Secretary of all persons properly qualified or entitled under this act, and to cause the prosecution of all persons violating its provisions. Pharmacists applying to the Board of Examination shall pay a fee of five dollars, and upon passing a satisfactory examination, and having otherwise complied with the provisions of this act, the Board shall furnish a certificate to the applicant without additional charge. From said five dollars each of the members of the Board shall be paid a compensation of one dollar for each examination. All expenses arising under this act shall be paid out of the moneys received by said Board, and any surplus moneys may be used or appropriated for such purposes as the registered pharmacists of said city, in their annual meeting, may from time to time determine.

SEC. 6. The duties of the Secretary and Treasurer shall be to keep a book for the registration of pharmacists and assistant pharmacists at some convenient place, to be designated by the Board of Pharmacy, of which he shall give due notice through the public press in the City of Milwaukee, and in which shall be entered under the supervision of the Board of Pharmacy the names, titles, qualification and places of business of all coming under the provisions of this act; and it shall be the duty of all such persons to see that they are registered within a period of thirty days after the organization of the board of pharmacy. The fee to be paid to the board for the registration of graduates, practicing pharmacists, and assistant pharmacists, under this act, without examination, shall be one dollar; and it shall be the duty of every person registered to have his registration renewed every year, the fee for which shall be fifty cents; and upon changing his place of business or engagement, to notify the Secretary within thirty days. The Secretary shall be paid a compensation for each first registration, fifty cents, and for each renewal twenty-five cents, out of the moneys received for registrations. The Secretary shall make all necessary alterations in the register, and notify all persons who shall not have renewed their registration to do so within thirty days, for which services the party notified shall pay a fee of fifty cents to the board, and in case no answer is received before the expiration of such notice, the name of the party so notified shall be erased, unless an excuse, satisfactory to the board, be presented; provided, always, that the said name shall be restored only on payment of five dollars to the board within one year. The Secretary shall receive all moneys belonging to the board and give receipts therefor. He shall disburse the moneys under the direction of the board; shall keep an accurate account, which shall always be subject to the inspection of the board; he shall give good and sufficient bonds, payable to the board of pharmacy, for the faithful performance of his trust, which shall be satisfactory to and approved by the board of pharmacy. He shall also report annually to the mayor of the city upon the conditions of pharmacy, together with the names of all registered pharmacists, and assistant pharmacists, duly registered under this act.

SEC. 7. Any person not a registered pharmacist, who shall thirty days after said board is organized, keep open shop for retailing or dispensing of drugs, medicines and poisons, or who shall use the title of registered pharmacist or registered assistant pharmacist, shall for every such offense be deemed guilty of a misdemeanor, and on conviction, shall be liable to a penalty of not less than fifty dollars nor more than two hundred dollars.

SEC. 8. Any registered pharmacist who shall knowingly, intentionally, or fraudulently adulterate, or cause to be adulterated, any drugs, chemical or medicinal preparations, intended for medical purposes, shall be held guilty of a misdemeanor, and upon conviction thereof, shall pay a penalty not exceeding five hundred dollars nor less than fifty dollars, and shall forfeit to the City of Milwaukee all the articles adulterated.

SEC. 9. From and after the first day of August, 1876, it shall be unlawful for any person in the City of Milwaukee, to retail any poisons enumerated in schedules A and B, appended to this act, without distinctly labeling the bottle,

box, vessel, or paper and wrapper, or cover in which said poison is obtained, with the name of the article, the word "poison," and name and place of business of the seller. Nor shall it be lawful for any person to sell or deliver any poison enumerated in schedules A and B, to any person, unless on due inquiry it is found that the person is aware of its poisonous character, and that it is to be used for a legitimate purpose. Nor shall it be lawful for any person to sell or deliver any poison included in schedule A without, before delivering to the buyer, making or causing to be made, an entry in a book kept for that purpose only, stating the date of the sale, the name and address of the buyer, the quantity of poison sold, the name of the poison, for what purpose, and the name of the dispenser. Said book to be kept always open for the inspection of the proper city, county and state authorities, and to be preserved at least five years. The provisions of this section shall not apply to the dispensing of physicians' prescriptions, but all prescriptions shall be carefully filled by the pharmacist, and numbered in the order in which they are dispensed. Said prescriptions must be preserved at least five years, and a copy must be furnished by the pharmacist, if demanded by either the writer or the purchaser, for which copy no fee shall be exacted.

SEC. 10. Nothing in this act shall apply to or in any manner whatever interfere with the business of any practitioner of medicine who does not keep open shop for the retailing, dispensing, or compounding of medicines and poisons, nor prevent them from administering or supplying their patients such articles as may seem to them fit and proper; nor shall it interfere with the business of wholesale dealers of drugs and chemicals, in sales to retailers and physicians, or for use in the arts; nor with the making and dealing in proprietary remedies, popularly called patent medicines, nor shall the provisions of this act apply to practicing homeopathic physicians who do not keep a retail apothecary store. Schedule A— Arsenic and its preparations, corrosive sublimate, white precipitate, red precipitate, bin-iodide of mercury, cyanide of potassium, hydrocyanic acid, strychnia. Schedule B—All poisonous vegetable alkaloids and their salts; aconite, belladonna, colchicum, conium, nux vomica, henbane, savin, ergot, cotton root, cantharides, digitalis, and their pharmaceutical preparations, croton oil, chloroform, choral hydrate, sulphate zinc, sugar lead, mineral acids, carbolic acid, oxalic acid, opium and its preparations, except paregoric and all preparations of opium containing less than two grains to the ounce.

SEC. 11. This act shall take effect and be in force from and after the first day of August, A. D. 1876, and all acts and parts of acts contravening the provisions of this act are hereby repealed.

In the chapter on Associations, it was shown that the older Milwaukee Pharmaceutical Society died almost within twenty-four hours after its birth, and that several attempts to revive it failed. A new society was formed in Milwaukee in 1881, but this was after the State Association had been organized the year previous.

In 1869, the American Pharmaceutical Association had adopted what is now known as the "old model" of a pharmacy law and special endeavors were made by its members to secure the establishment of state associations, and through them the enactment of state laws. Mr. E. B. Heimstreet, who had joined the association in 1874, was persuaded, four years later, to attempt to do in Wisconsin what other members of the American Pharmaceutical Association had done for their respective states. He called upon the druggists of his county and thus brought about the organization of the Rock County Pharmaceutical Society. How this local organization rapidly outgrew its county limits and brought about state organization, is described in some of the preceding pages.

Mr. A. H. Hollister, in his address as Temporary Chairman at the Madison meeting in July, 1880, made special reference to the necessity of a state law, as follows:

"A state pharmacy law has long been a necessity; it can never be secured through spasmodic efforts on the part of a single city or section. Until the pharmacists of the state organize and demand recognition of their professional standing and rights, they can never reasonably expect special favors from the legislature. This in itself would be reason sufficient for the immediate formation of a State society."

Again, Mr. F. S. Fenton, President of the Rock County Pharmaceutical Society, in an address at this same meeting, laid great stress upon the necessity of pharmaceutical legislation. In consequence of these remarks and the views individually held by the gentlemen present, a Committee on Legislation, consisting of Messrs. Sumner, Hollister, and Clark, all of Madison, was appointed. /

At the next meeting, held in Milwaukee, August 9, 10, and 11, 1881, President Dadd again called attention to the laxness of regulations in regard to pharmacy while nothing had really been done to change this condition. At this meeting the committee was increased to seven members, consisting of Messrs. Sumner of Madison, J. C. Huber of Fond du Lac, C. Widule of Milwaukee, John A. Dadd of Milwaukee, F. S. Fenton of Beloit, F. Robinson of Kenosha, and E. B. Heimstreet of Janesville.

Besides the local pharmacy law, which applied to Milwaukee only, there existed a number of laws in Wisconsin which in one way or another directly affected the druggist. In the various liquor laws, the druggist was usually placed in the same category with the saloon keeper. At the Milwaukee meeting of the newly organized State Association Mr. Fenton presented a paper on: "What are the present laws of Wisconsin that specially relate to the practice of pharmacy?"

This paper is herewith reproduced because its contents will give some idea of the legal regulations concerning the practice of pharmacy before the enactment of the general pharmacy law.

**REVISED STATUTES 1878, CHAPTER 17.**

Section 1419. No druggist, apothecary or other person, except practicing physicians in their ordinary practice, shall sell or give away, except upon order or prescription of a practicing physician, any article or articles belonging to the class usually known as poisons, without first registering in a book kept therefor the name, age and sex of the person obtaining such poisons; the quantity sold, the purpose for which it is required, the date when delivered, the name and place of abode of the person for whom it is intended, and carefully marking the word "poison" upon the label or wrapper of each phial, box or package, and no such person shall sell or give away any such article of poison to any minor, except upon the order or prescription of a physician. Every person violating any of the provisions of this section shall forfeit for each such violation not less than twenty nor more than one hundred dollars.

**CHAPTER 116, REVISED STATUTES 1878.**

Section 2525. The following persons shall be exempt from serving as jurors: \* \* \* One dispensing druggist in each prescription drug store.

**LAWS OF WISCONSIN, 1879; CHAPTER 248.**

Section 2. No person shall, except for the purpose of compounding as hereinafter described, mix, color, stain or powder, or permit any other person to mix, color, stain or powder any drug with any ingredient or material so as to affect injuriously the quality or potency of such drug, with intent that the same may be sold in that condition. And any such person who shall sell any drug so mixed, colored, stained or powdered, shall be liable to the same penalty and punishment in each case respectively, as in the preceding section, for a first and subsequent offense; provided, that no person shall be liable to be convicted under the foregoing sections of this act in respect to the sale of any article of food or of any drug, if he shows to the satisfaction of the justice or court before whom he is charged that he did not know of the article or drug sold by him being so mixed, colored, stained or powdered, as in that section mentioned, and that he could not, with reasonableness, have obtained that knowledge, or that such mixing, coloring, staining or powdering was required

for the production, extraction, preparation, preservation, consumption or transportation as an article of commerce in a state fit for carriage, or where the drug or food is supplied in the state required by the specification of the patent in force, or that the food or drug was unavoidably mixed with some extraneous matter in process of collection or preparation.

Section 3. Every person who shall compound or put up for sale any food, drug or liquor in casks, boxes, bottles or packages, with any label, mark or device whatever, so as and with intent to mislead or deceive as to the true name, nature, kind and quality thereof, shall be liable to a penalty of not to exceed five hundred dollars for the first offense, and for every offense after the first offense shall be punished by imprisonment in the state prison for not less than one year nor more than ten years.

Section 4. The term "food" as herein used shall include every article used for food or drink by man other than drugs. The term "drug" shall include medicine for internal or external use. Approved March 5th, 1879.

Section 1420. No practicing physician or surgeon shall write or cause to be written any prescription or recipe in any characters, figures, or cipher, other than the English or Latin language generally in use among medical practitioners, and for every violation thereof the offender shall forfeit not less than five nor more than twenty-five dollars.

The committee of the State Association, appointed at the 1881 meeting, met at Madison in January, 1882. They presented a bill to the Legislature which evidently was a slight modification of the Illinois law. Senator McKeeby introduced the bill, which became known as the No. 46.S. "A bill to regulate the practice of pharmacy, the licensing of persons to practice the same and the sale of poisons in the State of Wisconsin." This bill was introduced on January 6, 1882, and was referred to the Committee on State Affairs. On February 16, 1882, it was reported back without recommendation, and came up for a third reading the next day. Senator Ackley moved that it be laid over until Tuesday, 11 A. M., and he made a special order of business for that time. On Tuesday, 11 A. M., the bill came up as special order, and Senator Ackley moved an amendment to Section 16, which amendment was adopted. Senator Kingston offered an amendment to Section 14, which was also adopted. It was then ordered to a third reading and referred to the Committee on Engrossed Bills. Reported correct February 24, 1882, it was read for the third time and passed. The Senate sent it to the Assembly, February 28, 1882. It was referred to the Committee on Medical Societies, and reported with recommendation for passage March 10, 1882. The

Assembly then considered the bill in committee of the whole and reported for passage without amendment, March 10. It was ordered to a third reading and reported back without correction. On third reading the bill encountered the first opposition outside of the committee room, and obstruction tactics were retorted to, to defeat the bill, but the opposition was overpowered, due to the good work done by the druggists from all sections and especially by the Legislative Committee of the Wisconsin Pharmaceutical Association. Mr. Wakefield moved that the bill be recommended to the Committee on State Affairs, which motion was lost. Mr. Clarke moved for indefinite postponement, which motion was also lost. Mr. Shepard moved that it be recommitted to the Committee on Medical Societies, which motion was lost. Again Mr. Wakefield moved to recommit, this time to the Committee on Agriculture. This was lost and the bill was read a third time and concurred in by a vote of 52 to 35. March 15, Mr. Grube moved that the be reconsidered. This was lost by about the same vote as the other motion. On the 15, the Assembly sent the bill back to the Senate, and after being reported correct and enrolled, it was signed by Gov. Rusk March 24, 1882, and thus became a law. The original law, as passed March 24, 1882, reads as follows:

AN ACT to amend chapter 167, of the laws of 1882, as amended by chapter 146 of the laws of 1885, and chapter 460, of the laws of 1887, relating to the practicing of pharmacy, the licensing of persons to carry on such practice and the sale of poisons in the state of Wisconsin.

The people of the State of Wisconsin represented in senate and assembly do enact as follows:

SECTION 1. Chapter 167, of the laws of 1882, as amended by chapter 146, of the laws of 1885, and as amended by chapter 460, of the laws of 1887, is hereby amended so as to read when amended as follows: Section 1. There is hereby established a board of pharmacy of the State of Wisconsin. Such board shall consist of five resident pharmacists. The term of office of the members of said board shall be five years each, and until their successors have been duly appointed and qualified, so ordered that the term of one member of said board shall expire each year. Death, removal from state, or resignation of a member, shall constitute a vacancy, which shall be filled for the remainder of the term by appointment, as in the case of expiration. Said board shall have the power specified in this act.

SEC. 2. The Wisconsin Pharmaceutical Association shall annually elect three pharmacists for recommendation to the governor of the state. Upon the expiration of the term of office of any member of the board of pharmacy,

or in the case of vacancy on said board, the governor shall appoint a successor, or fill such vacancy, by appointing a person who shall have been at some time recommended by said association.

SEC. 3. The said board shall hold an annual meeting in the month of March, the time and place of which shall be designated by the president and secretary of the board. At such annual meeting said board shall elect a president, secretary and treasurer, who shall hold office until the next annual meeting, and until their successors are elected and qualified; provided that the board may appoint a secretary or treasurer, some person not a member of the board. The said board shall have power to make by-laws for the government of the board and for the proper execution of its duties. The board shall hold meetings for the examination of applicants for registration as pharmacists and assistant pharmacists, who shall be known as "Registered Pharmacists," and "Registered Assistant Pharmacists." Said meetings shall be held at least once in three months, and any business may be transacted at such meetings which pertains to the duties of the board. Thirty days' public notice of a meeting when held for the purpose of examination, shall be given by said board. The board shall examine all applicants for registration when application shall be made in accordance with the by-laws of this board, and with this act, and when applicants shall be found competent they shall be granted certificates of registration. The board shall grant certificates of registration and register such persons as may be entitled to the same under this act. They shall cause the prosecution of all persons violating the provisions of this act; shall report annually to the governor, and to the Wisconsin Pharmaceutical Association upon the condition of pharmacy in this state, which report shall also contain a record of the proceedings of the board for the year preceding, the receipts and disbursements of the board, the names of all persons registered as pharmacists or assistant pharmacists. Three members of said board shall constitute a quorum. The secretary of said board shall keep a record of the proceedings of the board, and shall keep a book of registration in which shall be entered the names and places of business of all persons registered under this act, with the reason justifying their registration. Such books shall be *prima facie* evidence of what persons are registered pharmacists and registered assistant pharmacists in this state. The secretary shall receive a salary to be determined by the board, and his traveling and other expenses incurred in the performance of his official duties, and shall give such bond as the board shall from time to time direct. The other members shall receive the sum of five dollars for each day actually engaged in such service, with the necessary expenses incurred in attending meetings of the board. Such salary, compensation, expenses and other disbursements by the board shall be paid from the fees received by the board under this act, and no part thereof shall be paid out of the state treasury. All moneys received by the board in excess of the disbursements made by the board shall be held by the treasurer as a fund from which to pay the expenses of the board.

SEC. 4. All persons now registered as pharmacists by the board shall be entitled to practice their profession in accordance with this act. The board

shall hereafter issue certificates of registration, and register as pharmacists those persons who shall be twenty-one years of age or over, and shall have had five years' practical experience in a drug store wherein prescriptions of medical practitioners are compounded, and shall sustain a satisfactory examination before the board, and shall comply with the provisions of this act; and graduates of the several courses of the department of pharmacy of the University of Wisconsin, and of other universities and colleges giving like courses, shall be entitled to certificates of registration upon proof of two years "instead of five years" practical experience in a drug store, and upon sustaining like examinations and complying with other provisions of this act. All of which facts shall be made to appear to the satisfaction of the board. Such persons as are now registered, or may hereafter be registered under this act shall be entitled to practice their profession under such registration until the expiration of the time for the renewal thereof under this act. Upon failure to renew such registration, as herein provided, such registration shall cease and be invalid.

SEC. 5. Every registered pharmacist who wishes to continue the practice of his profession, shall annually, during the time he shall continue such practice, on such dates as the board may determine, apply for the renewal of his registration and pay the fee herein provided for such renewal. If any registered pharmacist fails to procure a certificate of renewal for sixty days after the secretary of the board shall have mailed him a notice a second time of the expiration of his registration, he shall cease to be a registered pharmacist within the meaning of this act. Such person to again become a registered pharmacist shall proceed as required for an original registration.

SEC. 6. Said board shall issue a certificate and register such persons as registered assistant pharmacists, as shall have reached the age of eighteen years and have had two years' practical experience in drug stores where prescriptions of medical practitioners are compounded, and shall pass a satisfactory examination before said board, and shall comply with the provisions of this act; all of which facts shall be made to appear to the satisfaction of this board. Every registered assistant pharmacist who desires to continue the practice of pharmacy, as in this act provided, shall annually, during the time he shall continue such practice, on such date as the board may determine, apply for a renewal of his registration, and pay the fee herein provided for such renewal. If any registered assistant pharmacist shall fail to take out a certificate of renewal for sixty days after the secretary of the board shall have mailed him a second notice of the expiration of his registration, he shall cease to be a registered assistant pharmacist, within the meaning of this act. Such person to again become a registered assistant pharmacist, shall proceed as required for original registration.

SEC. 7. Every certificate of registration and the renewal thereof shall be conspicuously exposed in the pharmacy in which the pharmacist to whom it is issued practices. And if any registered pharmacist or any registered assistant pharmacist shall fail or neglect to so conspicuously expose such cer-

tificate, or renewal, he shall forfeit ten dollars for each and every such failure or neglect.

SEC. 8. Every person applying for registration shall pay the board a fee of five dollars at the time of making the application, and if the board shall for any reason refuse to register the applicant, three dollars thereof shall be refunded. Every person applying for renewal of a certificate of registration shall pay to the board at the time of making the application, such fee as may be fixed by the board, which fee shall not exceed the sum of two dollars.

SEC. 9. It shall be unlawful for any person to retail, compound or dispense drugs, medicines or poisons, except Paris Green put up in packages, labeled "Paris Green—Poison," or to institute or conduct any pharmacy, store or shop for retailing, compounding or dispensing drugs, medicines or poisons in any town, city or village having five hundred or more inhabitants, unless such person shall be a registered pharmacist, or shall employ and place in charge of such pharmacy, store or shop a registered pharmacist. And in case any person shall so retail, compound or dispense drugs, medicines or poisons, or shall so institute or conduct a pharmacy, store or shop for retailing, compounding or dispensing drugs, medicines or poisons, he shall forfeit fifty dollars for each such offense. Any person who shall permit the compounding or dispensing of prescriptions, or the vending of drugs, medicines or poisons in his store or place of business, in a town, city or village having five hundred or more inhabitants, except by a registered pharmacist, shall forfeit fifty dollars for such offense. It shall be unlawful for any person to retail, compound or dispense medicines, drugs or poisons, except Paris Green put up in packages labeled "Paris Green—Poison," in his store or place of business, in towns, cities or villages having less than five hundred inhabitants, or to institute or conduct any pharmacy, store or shop, for retailing, compounding or dispensing drugs, medicines or poisons, in any town, city or village having less than five hundred inhabitants, unless such person shall be a registered pharmacist or registered assistant pharmacist, or shall employ and place in charge of such pharmacy, store or shop a registered pharmacist or registered assistant pharmacist, and in case any person shall so retail, compound or dispense drugs, medicines or poisons, or shall institute or conduct any pharmacy, store or shop for retailing, compounding or dispensing drugs, medicines or poisons, he shall forfeit fifty dollars for each such offense. Any person who shall permit the compounding or dispensing of prescriptions or the vending of drugs, medicines or poisons, in his store or place of business in a town, city or village having less than five hundred inhabitants except by a registered pharmacist or registered assistant pharmacist, shall forfeit fifty dollars for each such offense; provided that under the personal supervision of a registered pharmacist, a registered assistant pharmacist may compound or dispense prescriptions and vend drugs, medicines or poisons without such forfeiture being incurred; and provided, that nothing herein shall be construed to in any manner interfere with any physician in regular practice from dispensing his own medicines or prevent him supplying his patients with such articles as may seem to him

proper; nor interfere with the general sale of proprietary medicines that have been prepared and compounded within the state, by physicians and duly registered pharmacists; provided the same shall be sold in sealed packages on which shall be printed or stamped the name, contents and the directions for using, together with the name of the physician or registered pharmacist by whom prepared and compounded; nor interfere with the general sale within the state of proprietary medicines that have been prepared and compounded outside the state and brought in the state, nor with the sale of the usual domestic remedies; nor with the exclusive wholesale business of any dealer. The term "usual domestic remedies" is hereby construed to include alum, ammonia, borax, bay rum, castor oil, camphor spirits, camphor gum, copperas, glycerine, Epsom salts, Glauber salts, Rochelle salts, Fennel seed, indigo, magnesia, potash, senna leaves, sulphur, vaseline, insect powder, resin, turpentine and blue vitrol. Poisonous drugs or medicines, such as rough on rats, carbolic acid, aconite, laudanum, paregoric and spirits of nitre, may be sold by general stores in sealed packages only, said packages to be properly labeled by a registered pharmacist of Wisconsin. The label shall have the name of a registered pharmacist thereon, and the words "Registered Pharmacist of Wisconsin, Certificate No.——," with the proper directions for the use thereof. The sale of these articles put up by wholesale druggists or manufacturers, not registered pharmacists of Wisconsin, is not legal under this act.

SEC. 10. Any person who shall wilfully made a fraudulent statement or representation to procure registration for himself, or for any other person, under this act, or who shall violate any provisions of this act for which a specified penalty or forfeiture is not provided shall, for each and every such offense forfeit the sum of fifty dollars.

SEC. 11. Every owner or conductor of a drug store shall be responsible for the quality of all drugs, chemicals or medicines sold or dispensed by him, except those sold in the original package of the manufacturer, and except those articles known as patent or proprietary medicines. And should any such owner or conductor of a store intentionally and fraudulently adulterate, or cause to be adulterated, any drug, chemicals or medicinal preparations sold in such store, he shall, for each and every such offense, forfeit the sum of one hundred dollars, and if such a person be a registered pharmacist or registered assistant pharmacist, his registration and certificate of registration may be, by said board, revoked and annulled; whereupon such person shall cease to be a registered pharmacist or registered assistant pharmacist.

SEC. 12. No person shall sell or retail any poison commonly recognized as such, except Paris Green put up in original packages and labeled "Paris Green—Poison," and especially aconite, arsenic and its preparations, belladonna, biniodide of mercury, carbolic acid, chloral hydrate, chloroform, conium, corrosive sublimate, creosote, croton oil, cyanide of potassium, hydrocyanic acid, morphine, nux vomica, oil of savin, oil of tansy, oil of bitter almonds, oil of cloves, oxalic acid, opium and preparations of opium, phosphorus, sulphuric ether, strychnine, sugar of lead, sulphate of zinc, white precipitate, red precipitate or any mixture containing enough of any said

poisons, or any combination of them sufficient to kill a person taking the same, without affixing to the box, bottle or vessel or package containing the same, and to the wrapper or cover thereof, a label bearing the name "poison" distinctly shown, together with the name and place of business of the seller. And any person who shall sell or retail any such poison shall keep in his place of business a book, in which shall be entered an accurate account of the sale of all poisons; such record shall contain the amount purchased, the date, for what purpose purchased, and the buyer's name and address. This record shall be at all times, during ordinary business hours, subject to the inspection of the district attorney of the county in which such store is located, or of any authorized agent of said board. Any person failing or neglecting to comply with any of the provisions of this section shall be guilty of a misdemeanor, and upon conviction be punished by a fine not exceeding fifty nor less than five dollars.

SEC. 13. All actions for the recovery of the several forfeitures or penalties prescribed in this act, may be instituted in any court having jurisdiction thereof, by any member of the board, and the members of said board are especially directed to institute such action. It shall be the duty of the district attorney of the county wherein said forfeitures or penalties are incurred to prosecute all persons incurring any forfeiture or penalty when notified of the same by said board or any officer or agent thereof. Upon complaint made to any justice of the peace by any member of said board, showing that forfeiture has been incurred under this act, and that said justice of the peace has jurisdiction of an action thereof, such justice of the peace shall issue process thereon, as provided by the statute for the collection of forfeitures.

SEC. 14. The Board of Pharmacy of the State of Wisconsin, as at present constituted, shall continue with all the powers and duties with which the board is invested by this act. The present members of said board shall hold their office for the term for which they have been heretofore appointed, respectively, as designated in their appointment. The present officers of said board shall hold their respective offices until the expiration of the time for which they have been elected. The rules, regulations, by-laws and acts of said board shall continue in force and effect.

SEC. 15. All acts or provisions regulating the practice of pharmacy and the sale of poisons within this state, enacted prior to the passage of this act are hereby repealed.

SEC. 16. This act shall take effect and be in force from and after its passage and publication.

The following, while not included in the pharmacy law, are of interest to pharmacists generally:

#### RELATING TO THE SALE OF LIQUORS.

SEC. 2, as amended by chapter 404, laws of 1887. There is hereby enacted a new section to be known as section 1548a of the revised statutes, which shall read as follows: Section 1548a. The town boards, village boards, and common councils of the respective towns, villages and cities in this state, upon the

written application of any registered pharmacist, may grant to such registered pharmacist as they may deem proper a permit to sell strong, spirituous and ardent liquors in quantities less than one gallon, for medical, mechanical or scientific purposes only, and not to be drank on the premises. The sum to be paid for such permit shall be \$10, and such permit shall be granted and issued in the same manner and terminate at the same time as the license provided in the preceding section, except that it shall not be necessary for any registered pharmacist to furnish the bond required by section 1549, of the revised statutes; provided, that in case any town board, village board or common council shall refuse to grant such permit, any pharmacist may sell such strong, spirituous and ardent liquors, for medicinal purposes only on the written prescription for each sale, of a practicing physician, competent to testify in any court in this state in a professional capacity, as provided by section 1436 of the revised statutes. It shall be the duty of every pharmacist to whom a permit is issued to keep a book, in which he shall enter the date of every sale made by him of any such liquors, the name of the person to whom sold, and the kind and quality of, and purpose for which such liquors are sold; and such book shall at all times be open to the inspection of the authorities granting such permit. It shall be the duty of every such pharmacist, on the third Tuesday of April in each year, to file with the clerk of the city, village or town in which the permit is granted, a verified copy of all the entries made by him in such book, as he is required by this section to keep.

SEC. 5. There is hereby enacted a new section to be known as section 1550a of the revised statutes, which shall read as follows: Section 1550a. Any person who shall for the purpose of inducing the sale of liquors by any registered pharmacist, holding a permit therefor, for any other use than medicinal, mechanical or scientific purposes, make any false statement or representation to such pharmacist, or any clerk or employe of such pharmacist, regarding the use for which such liquor is bought, and thereby induce such sale to be made in violation of law, or any registered pharmacist holding a permit under this charter, who shall neglect or refuse to comply with any of the requirements of this chapter, shall be guilty of a misdemeanor and on conviction thereof, shall be punished therefor by a fine of not less than ten dollars or more than forty dollars, besides the cost of suit; and in case of a second or subsequent conviction of the same person, the punishment shall be a fine of not less than forty dollars or more than one hundred dollars besides the costs of the suit; or by imprisonment, in the county jail of the proper county, not less than thirty days or more than three months; and in case of punishment by fine, such person shall, unless the fine and costs be paid forthwith, be committed to the county jail of the proper county until such fine and costs are paid, or until discharged by due course of law.

NOTE.—Liquor permits can be issued to registered pharmacists only and not to firm. In case a proprietor of a drug store is not a registered, the permit must be made out in the name of the registered man in charge of the pharmacy. Pharmacists should attend to this and see that none but registered men receive certificates.

## EXTRACTS FROM THE DAIRY AND FOOD LAW.

SECTION I. No person, by himself, his servant or agent, or as the servant or agent of any other person, shall sell, exchange, deliver, or have in his possession with the intent to sell or exchange, or expose or offer for sale or exchange, any drugs or articles of food which is adulterated within the meaning of this act.

SEC. III. The term "drugs" as used in this act, shall include all medicine for internal or external use, antiseptics, disinfectants and cosmetics. The term "food," as used herein, shall include all articles used for food or drink by man, whether simple, mixed or compound. (a) In the case of drugs: (1) If, when sold under or by a name recognized in the United States Pharmacopoeia, it differs from the standard of strength, quality or purity laid down in the latest current edition thereof; (2) If, when sold under or by a name not recognized in the Pharmacopoeia, but which is found in the Pharmacopoeia of some other country, the National Formulary, or other standard work on *materia medica*, it differs materially from the standard of strength, quality or purity laid down in the latest current edition of such work; (3) If its strength, quality or purity falls below the professional standard under which it is sold.

SEC. VI. No person, by himself, his servant or agent, or as the servant or agent of any other person, shall sell, exchange, deliver or have in his possession with the intent to sell or expose or offer for sale or exchange, any medicine known as patent or proprietary, or of which the formula is kept secret by the manufacturer, which contains morphine, strychnine, cocaine, or any poisonous or narcotic alkaloid or drug in any quantities which the State Board of Health shall deem harmful to the life or health of the public, unless the presence of the same be distinctly shown by a label upon the bottle or package and upon the outer wrapper thereof.

SEC. VII. Whoever violates any of the provisions of this act shall be guilty of a misdemeanor, and, upon conviction, shall be fined not exceeding one hundred, nor less than twenty-five dollars for each and every offense.

This act shall take effect and be in force from and after January 1, 1898.



Library.

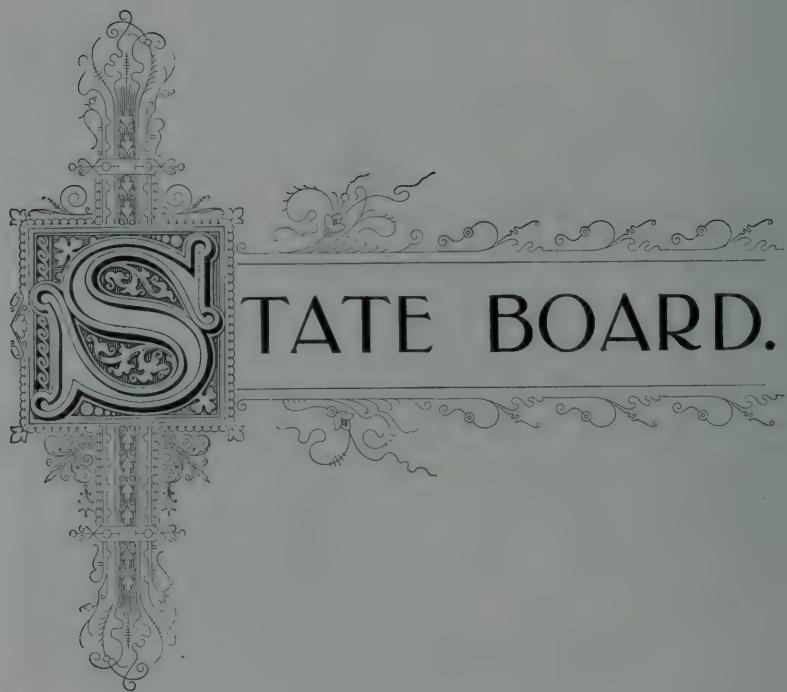
Law Building.

North Hall.



CHRIST AS APOTHECARY,  
WEIGHING THE DRUG "CROSS-MINT."

Original photograph in possession of Prof. Kremers. For an account of this painting see Pharm.  
Review, vol. 17, p. 338.



## **State Board of Pharmacy.**

As a result of the efforts of the Wisconsin Pharmaceutical Association, through its committee on legislation, the legislature of 1882 passed a law regulating the practice of pharmacy. A prominent feature of the law was the establishing of a Board of Pharmacy to be composed of five resident pharmacists. The members of the Board were to be appointed, one each year, by the Governor from three pharmacists elected for recommendation by the Wisconsin Pharmaceutical Association. The term of office was to be five years, the term of one member expiring each year.

Shortly after the passage of the act, the Wisconsin Pharmaceutical Association, at a special meeting held in Milwaukee April 6, 1882, elected ten practicing pharmacists, from which the Governor selected five. On the 13th of April, 1882, Governor Rusk appointed as members of the first Board the following persons: F. H. Spence, of La Crosse, for one year; A. H. Hollister, of Madison, for two years; F. Robinson, of Kenosha, for three years; A. Conrath, of Milwaukee, for four years, and E. B. Heimstreet, of Janesville, for five years. Pursuant to call, the Board met in the Capitol on the 20th of April, 1882, and organized, electing Mr. Spence as President, and Mr. Heimstreet as Secretary and Treasurer. By-laws were adopted and general business transacted. The salary of the Secretary and Treasurer was fixed at \$300 for the first year, with bonds of \$3,000.

The duty of the Board is to enforce the law and to examine candidates for registration. The first two years the Board received many complaints, but made no prosecutions. It was thought best to give

all an opportunity to become acquainted with the law. When complaints were made, the Secretary of the Board wrote or called in person to explain the law and thus succeeded in arranging matters in all cases. From this method of procedure some evidently got the impression that the Board would take no active part and when informed of violations would not enforce the law, but in 1885 the Board tried six cases. The total number of cases tried up to August, 1899, is 78.

The examining of candidates for registration has taken up by far the greater part of the Board's time. Three or six meetings are held every year, and as many as seventy-five candidates have been examined at a meeting. It was thought best to make the first examinations as simple and practical as possible, and gradually, from year to year, to raise the standard. The first examinations were conducted as follows:

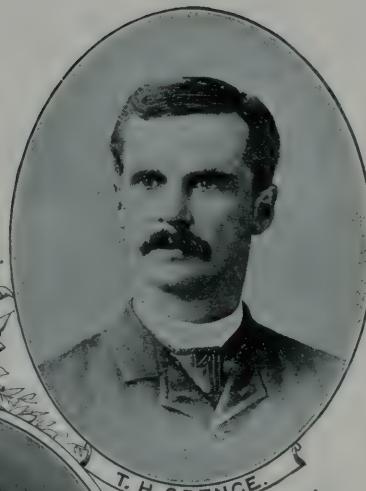
1. A series of questions, thirty in number, were handed to the candidate, which he was expected to answer in writing in the presence of the examining committee.
2. A series of specimens, thirty in number, of drugs, chemicals and preparations had to be identified.
3. A number of prescriptions were obtained from the files of pharmacists which were read by the candidate, he being questioned as to the mode of compounding, etc.

At present the examinations consist of a written examination in pharmacy, *materia medica* and general chemistry; an oral examination, including the reading of prescriptions, doses, toxicology and identification of specimens.

There are at present two classes of certificates issued: that of Licentiate Pharmacist and that of Assistant Pharmacist. All candidates take the same examination, but a general average of 75 per cent., and not less than 60 per cent. in any one branch, is required for licentiate; and a general average of 60 per cent., and not less than 45 per cent. in any one branch, for assistant. All registered licentiate and assistant pharmacists must pay an annual fee for re-registration. Any pharmacist who does not pay, after having received a notice from the Secretary of the Board, is to be dropped from the books, and must pass another examination before he can re-register.



ADAM CONRATH.



T. H. SPENCE.



F. ROBINSON.



E.B. HEIMSTREET.



A.H. HOLLISTER.

WISCONSIN STATE BOARD OF PHARMACY, 1882 TO 1887.

| Year. | Total number examined. | Number of Graduate* and Licentiate certificates issued. | Number of Assistant certificates issued. | Number of candidates rejected. | Number of certificates issued by registration from other states. |
|-------|------------------------|---------------------------------------------------------|------------------------------------------|--------------------------------|------------------------------------------------------------------|
| 1882  | 22                     | 12                                                      | 2                                        | 8                              |                                                                  |
| 1883  | 54                     | 37                                                      | 2                                        | 15                             |                                                                  |
| 1884  | 88                     | 50                                                      | 14                                       | 24                             |                                                                  |
| 1885  | 92                     | 51                                                      | 12                                       | 29                             |                                                                  |
| 1886  | 135                    | 54                                                      | 14                                       | 67                             |                                                                  |
| 1887  | 157                    | 72                                                      | 18                                       | 67                             |                                                                  |
| 1888  | 154                    | 29                                                      | 74                                       | 51                             |                                                                  |
| 1889  | 123                    | 28                                                      | 62                                       | 33                             |                                                                  |
| 1890  | 158                    | 30                                                      | 70                                       | 58                             | 38                                                               |
| 1891  | 181                    | 35                                                      | 57                                       | 89                             | 36                                                               |
| 1892  | 180                    | 39                                                      | 58                                       | 83                             | 34                                                               |
| 1893  | 173                    | 40                                                      | 63                                       | 75                             | 38                                                               |
| 1894  |                        | 37                                                      | 70                                       | ?                              | 32                                                               |
| 1895  | 187                    | 68                                                      | 89                                       | 30                             | 22                                                               |
| 1896  | 253                    | 69                                                      | 87                                       | 97                             | 9                                                                |
| 1897  | 244                    | 71                                                      | 78                                       | 95                             | 7                                                                |
| 1898  | 240                    | 76                                                      | 74                                       | 100                            | 10                                                               |
| 1899  | 265                    | 67                                                      | 70                                       | 128                            | 9                                                                |
| 1900  |                        |                                                         |                                          |                                |                                                                  |

The following table gives the names of registered pharmacists elected by the State Association for submission to the Governor, also the names of persons appointed by the Governor since the passage of the law.

| Date. | Nominated.                                                         | Appointed.                                                    | Term expires.                           |
|-------|--------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------|
| 1882  | J. C. Huber.....<br>H. C. Schranck.....<br>John Cadman.....        | .....T. H. Spence.....                                        | 1888                                    |
| 1883  | John Robinson.....<br>A. H. Hollister.....<br>T. H. Spence.....    | .....A. H. Hollister .....                                    | 1889                                    |
| 1884  | John A. Dadd .....<br>F. Robinson.....<br>J. C. Huber.....         | .....F. Robinson .....                                        | 1890                                    |
| 1885  | Adam Conrath.....<br>H. C. Schranck.....<br>John A. Dadd.....      | .....Adam Conrath.....                                        | 1891                                    |
| 1886  | E. B. Heimstreet.....<br>F. F. Prentice.....<br>C. A. Emerson..... | .....E. B. Heimstreet .....                                   | 1892                                    |
| 1887  | W. M. Edwards.....<br>C. R. Bechmann.....<br>J. C. Huber.....      | .....C. R. Bechmann.....                                      | 1893                                    |
| 1888  | R. D. Pulford .....                                                | .....R. D. Pulford died 1893. H. O. Frank<br>J. C. Huber..... | .....appointed to fill vacancy.....1894 |

\* Graduate certificates are no longer issued since 1894.

| Date. | Nominated.                                                                          | Appointed.                                                                     | Term expires. |
|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------|
| 1889  | F. Robinson.....<br>J. C. Huber.....<br>F. M. Givens.....                           | F. Robinson died 1893. John Rosch<br>appointed to fill vacancy.....            | 1895          |
| 1890  | John Kienth.....<br>H. G. Ruenzel.....<br>H. C. Schranck.....                       | H. C. Schranck .....                                                           | 1896          |
| 1891  | E. B. Heimstreet.....<br>F. F. Prentie.....<br>W. P. Clarke.....                    | E. B. Heimstreet.....                                                          | 1897          |
| 1892  | C. R. Bechmann.....<br>C. Boehme, Jr.....<br>R. E. Knorr.....                       | C. R. Bechmann resigned 1876. H. C.<br>Schranck appointed to fill vacancy .... | 1898          |
| 1893  | H. T. Eberle.....<br>Edwin Sumner.....<br>H. O. Frank.....                          | H. O. Frank .....                                                              | 1899          |
| 1894  | A. F. Menges.....<br>L. C. Urban.....<br>John Rosch .....                           | A. F. Menges .....                                                             | 1900          |
| 1895  | G. Naffs.....<br>D. A. Taylor.....<br>H. C. Schranck.....                           | D. A. Taylor.....                                                              | 1901          |
| 1896  | E. B. Heimstreet.....<br>E. D. Pardee .....                                         | E. B. Heimstreet.....                                                          | 1902          |
| 1897  | Chas. Pfeifer.....<br>H. G. Thompson.....<br>Jos. Hammel.....<br>H. G. Ruenzel..... | H. G. Thompson .....                                                           | 1903          |
| 1898  | R. M. Dadd.....<br>F. W. Thiemann.....<br>Henry Ruenzel.....                        | H. C. Schranck .....                                                           | 1904          |
| 1899  | A. F. Menges.....<br>Henry A. Peters.....<br>Edw. Williams .....                    | A. F. Menges .....                                                             | 1905          |

### Regulations of the State Board.

The board desires to call the attention of Wisconsin pharmacists to some of the important points of law. None but registered pharmacists can conduct a drug store or pharmacy; they must be the principals and managers of the store in *all its management*; neither can they allow anyone not registered to sell medicines or poisons, or dispense physicians' prescriptions, except under their *direct* supervision.

(See supreme court decision, State vs. Heineman, September, 1887). A registered assistant pharmacist can conduct or take charge of a pharmacy in town or village of less than five hundred population.

Sales of poisons can only be made by a proprietor, principal or clerk who is a registered pharmacist, and a registered pharmacist cannot have charge of more than one store.

The certificates of all registered pharmacists must be conspicuously posted in the place of business or pharmacy which they are conducting, or in which they are employed, with the renewal certificate placed in the lower left hand corner, to show to the public that their certificates of registration are in full force and effect, and in case they fail to so post their certificates the law imposes a fine of ten dollars, and such certificate can only apply to the pharmacy in which the owner is engaged, and any certificate found in any pharmacy where the owner is not actively engaged will be taken up by the board of pharmacy or its agent.



H. G. THOMPSON—Marinette.

Member of Board since 1898.

The Wisconsin State Board of Pharmacy will grant full certificates to all licentiates of other states whose examinations correspond with that of Wisconsin, and the applicant gives proof that he has had five years' practical experience and *passed a successful examination*, viz.: The Secretary of the Wisconsin Board will register and issue certificates to such applicants when above proof is furnished and a fee of \$5 is paid for registration. File affidavit as per blanks furnished, furnish certificate under seal of the board before whom they took examination, showing eighty per cent. or over standing, furnish sworn affidavits from former employers, showing five years' experience. On receipt of papers as above the secretary is directed to send certificate of registration. An assistant's certificate is granted to those having less than five

years' experience. Assistants' certificates are *not* interchangeable. No diplomas of any school of pharmacy are recognized.

Application *must* be made out from some town or city in Wisconsin and endorsed by a registered pharmacist of Wisconsin.

Liquor permits can be issued to registered pharmacists only, and not to a firm. In case a proprietor of a drug store is not registered, the permit must be made out in the name of the registered man in charge of the pharmacy. Pharmacists should attend to this and see that none but registered men receive certificates.

All applicants for licentiate certificates must be over twenty-one; assis-



H. C. SCHRANCK—Milwaukee.\*

Member of Board 1891—'96, reappointed 1899.

tants eighteen years of age, and all applicants for examination must furnish affidavits from the person or persons under whom they served, showing by dates the length of time the applicant has been under the instruction of a registered pharmacist. Graduates or students from recognized colleges of pharmacy must furnish proper credentials or affidavits from teachers, setting forth name of college and length of time of study in such college. The time spent in a recognized college of pharmacy shall be counted the same as time

\* Portraits of other members of the present Board will be found as follows:  
E. B. Heimstreet—Janesville. Secretary of the first Board and reappointed in 1887, 1892 and 1897. p. 30.

A. F. Menges—Madison. Appointed in 1895 and reappointed in 1900;  
D. Taylor—Stevens Point. Appointed in 1896, both in chapter on "Alumni."

spent in a retail drug store, but not more than two years of such college work shall be counted as actual experience for a licentiate, nor more than one year for a registered assistant pharmacist. Provided, that the licentiate must have had at least two full college years' study, and the registered assistant pharmacist at least one full college years' study, to be entitled to such credit for actual experience. The college year shall consist of not less than ten hours classwork, and fifteen hours laboratory work a week, and of nine calendar months.

Any pharmacist or assistant pharmacist failing to pay his renewal within sixty days after second notice shall have been sent him by the secretary, *will lose his registration and cease to be a registered pharmacist.*

Complaints frequently come that a store is being run without a registered person in charge, but some pharmacist had his certificate in said store. Pharmacists will take notice that the fact that their certificate being in such store is evidence that they are in charge and in case of prosecution the case will be against them as well as the proprietor of the store. Do not have your certificate in any store where you are not actually employed, or it will be taken up.

#### EXAMINATION.

Applicants for examination will be expected to have at least a rudimentary knowledge of chemistry as taught by the simple manuals of that science. To be able to read and translate physicians' prescriptions, to point out incompatibilities, correct errors in doses, and describe methods of procedure in dispensing. To be well versed in the preparations of the United States Pharmacopoeia. To have a general knowledge of *materia medica*, with reference to dose, source of drugs, parts used in medicinal preparations, antidotes and treatment in case of poisoning. To be able to identify specimens of drugs, and give their names in Latin and English. To have at least such preliminary training in the common English branches as is required for entrance into a high school. In examination, if an applicant applying for a licentiate does not come to the required standard he can receive an assistant's certificate, if standing sufficient. No sample of question papers are sent to any one, but are published once a year in the proceedings. In writing for application blanks state whether *licentiate* or *assistant* is wished. No examination can be given but at the regular advertised meetings of the Board, and record of standing will be sent only in cases of transfer of certificates to other states. Applicants for examination must furnish certificates of service, signed and sworn to by former employers.

Examinations have been as practical as possible, commencing at 9 A. M. A sheet of thirty questions is given to the applicant, who has three hours to answer same. At two P. M. samples of drugs and chemicals are presented, and the applicant has one hour for identification, after this an oral examination, reading prescriptions, mode of preparation, etc., is given. For licentiate certificate the candidate must have a standing of sixty per cent. on each branch and a general average of seventy-five. For assistant, forty-five on each branch and a total of sixty per cent. A person applying for licentiate whose standing is below standard, may have assistant papers if he desires.



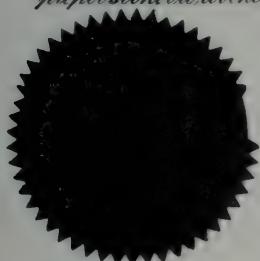
To all whom these Presents shall come Greeting:

Know Ye, That, reposing special Trust and Confidence in the Integrity and Ability of G. A. Munro, of Madison,  
J. Edward Safford, Governor of the State of Wisconsin,  
have appointed and by these presents do constitute  
and appoint him a member of the

Board of Pharmacy  
And I do hereby authorize and empower him to execute and fulfill the duties of that trust according to his best discretion,  
for the term ending April 12, 1905

unless the Governor of this State for the time being shall think proper sooner to revoke and determine this Commission.

In Testimony Whereof, I have hereunto set my hand and caused the Great Seal of the State of Wisconsin to be affixed. Done at the City of Madison, this twelfth day of April in the year of our Lord one thousand nine hundred



By the Governor:

John H. Prochler  
Secretary of State

Applications must be made out in regular form, on blanks furnished by the secretary. Those passing examination will receive their certificates the next month, as they have to be sent to each member for signature. *Duplicate certificates* will be furnished on affidavit of loss of original or return of same to the secretary with a fee of fifty cents.

#### ASSISTANT PHARMACIST.

That as the pharmacy law requires that every drug store in Wisconsin must be under the direct charge of a registered pharmacist of Wisconsin, "Any assistant pharmacist (of Wisconsin) shall have the right to act as clerk or salesman in a drug store or pharmacy during the 'temporary absence' of the owner or manager."

#### TEMPORARY ABSENCE.

The Board of Pharmacy construes the words "*temporary absence*" to mean that the assistant pharmacist may have charge of the store only while the registered pharmacist is gone to his meals or any other like necessary duty requiring no more time than is generally so consumed, and does not mean that the assistant pharmacist can take charge of the drug store or pharmacy for weeks at a time—the expressed intention of the pharmacy law being to keep every drug store or pharmacy under the immediate charge or supervision of a registered pharmacist during all the time the drug store or pharmacy is open for business.

#### THE DUTIES OF APPRENTICES.

The Board of Pharmacy in construing the duties of an apprentice, interpret the pharmacy law to mean that they shall in no instance be permitted to act as assistant or registered pharmacist during the absence of the latter from the store or place of business, but may sell drugs or compound prescriptions under the direct personal supervision of a registered pharmacist, and at no other time.

That it is the spirit and intention of the pharmacy law to place more competent persons in line for subsequent registration, and it is calculated and intended only to offer the apprentice an opportunity to acquire the necessary and contemplated experience.

That the apprentice will not be considered in any sense to be authorized under the law to exercise the duties and responsibilities of a registered pharmacist, or assistant pharmacist under the law.

#### RELATING TO THE SALE OF HOMEOPATHIC MEDICINES.

The sale of homeopathic medicines properly comes under the regulations of the pharmacy law. The sale therefore of any quantities of arsenic, aconite, nux vomica, belladonna and other poisonous preparations enumerated in section 12 should be sold as herein required.

#### PARIS GREEN.

May be sold by general dealers, and put up in packages and labeled "Paris Green—Poison."

## RENEWALS.

All certificates of registration must be renewed annually on or before the first day of June in each year. Every certificate must be kept conspicuously displayed in front of the store in which the holder is employed. There is a fine imposed by the law on those who fail to comply. Renewal receipts should be pasted on the lower left hand corner of the certificate. It is your duty to make application for renewal in time, and the Board is not required to send notice, so bear it in mind.

When making application for renewal always give street and number, so any mail matter addressed to you will be delivered promptly.

When making renewal or referring in any way to your certificate, always give the original number, which will enable the secretary to refer to it at once.



M. G. JEFFRIS—Janesville.  
For many years legal adviser of the State Board.

When you change your residence, notify the secretary at once so he can make the proper change in your address on his register.

If renewal is not paid within sixty days after second notice is mailed by the secretary of the Board, the certificate is cancelled and you lose your registration.

Any registered pharmacist or registered assistant pharmacist, while absent from the state, may keep up his registration by paying the annual fee when due, and unless such fee is paid and registration thus continued, they must come before the Board for examination before a new certificate will be issued them.

## PERMITS.

The Board has no authority to grant permits of any kind. A physician's diploma is not recognized as a certificate of registration, and a physician has

no right to sell drugs or poisons, or compound prescriptions of any other physician unless registered.

#### DOMESTIC REMEDIES.

The attention of pharmacists and general dealers is called to the following: Section 9 pharmacy law, (1) States what are domestic remedies and can be sold by general dealers. (2) What poisons can be sold by general dealers in sealed packages only, and such packages must be put up by a registered pharmacist of Wisconsin. A wholesale dealer cannot put up these goods to be sold, and furthermore, *every general dealer who sells these goods must keep a poison register and register every sale of such goods the same as a pharmacist.* Hereafter the sale of rough on rats must be registered. The term "usual domestic remedies" is hereby construed to include alum, ammonia, borax, bay rum, castor oil, camphor spirits, camphor gum, copperas, glycerine, Epsom salts, Glauber salts, Rochelle salts Fennel seed, indigo, magnesia, potash, senna leaves, sulphur, vaseline, insect powder, resin, turpentine and blue vitriol.

Poisonous drugs or medicines, such as rough on rats, carbolic acid, aconite, laudanum, paregoric and spirits of nitre may be sold by general stores in sealed packages only, said packages to be properly labeled by a registered pharmacist of Wisconsin. The label shall have the name of a registered pharmacist thereon, and the words "Registered Pharmacist of Wisconsin, Certificate No. —," with the proper directions for the use thereof.

The sale of these articles put up by wholesale druggists or manufacturers, not registered pharmacists of Wisconsin, is not legal under this act.

The supreme courts have decided that quinine is not a domestic remedy.

The words "usual domestic remedies" in the pharmacy law, taken in connection with the proviso in the same section of the law for medicinal use, shows conclusively the distinction made by the law between drugs and medicines for medicinal use, and those for domestic use, making a special distinction between domestic and medicinal, is clearly the intention of the law, and the Board so defines its provision.

**IF NOT CALLED FOR IN TEN DAYS RETURN TO**



# EDUCATION





## **Education.**

In 1836, when Wisconsin became a territory, there existed two colleges of pharmacy in the United States: the College of Apothecaries, organized by Philadelphia pharmacists in 1821, now known as the Philadelphia College of Pharmacy; and the New York college, established ten years later. The large majority of American druggists obtained their special training exclusively in drug stores. Thus Mr. Higby, who opened the first drug store in Milwaukee, in 1836, had "gone through a three years' course at Dr. Pomeroy's drug store in Cooperstown, N. Y.," as his biographer puts it. Mr. John A. Dadd, in his reminiscences\* informs us of the character of his apprenticeship in London and the different conditions prevailing in Milwaukee, when he came to Wisconsin. Many of the German pharmacists who had organized the first Milwaukee Pharmaceutical Society in 1875, had received their training exclusively in the apothecary shops of Germany.

It is but natural, therefore, that the apprenticeship played a most important role in the education of the young Wisconsin druggist. This was true even after the clerks from Wisconsin began to go East to supplement their shop experience by attending one of the older colleges of pharmacy for a winter or two; it is true even to-day.

That an apprenticeship of several years was not sufficient to make as good a pharmacist as was desired, was early recognized. The Philadelphia druggists acted upon the strength of their conviction when in 1821 they established an evening school in which the work in the drug store was to be supplemented by systematic courses of instruction. Other cities followed this example. To the credit of the drug-

\* Address to the graduating pharmacy class at the University in June 1894, and published in the Proceedings of the Wisc. Pharm. Assn. for that year.

gists of this country it should be said that, whereas the Eastern universities neglected and ignored the necessity of pharmaceutical education, the druggists supplied it to the best of their ability by the establishment of independent colleges of pharmacy.

The German apothecaries of Milwaukee also keenly felt the need of more systematic training, and in 1875 united to make provisions for it. An incident, showing that the mere training as apprentice was not always thorough, is related by Mr. J. Kienth in the "Herold" of September 17, 1875. In order that it may not lose any of its original flavor it is herewith reproduced in the German, or rather brogue of German and English.

"Wie schauderhaft leichtsinnig viele dieser sich Apotheker nennenden Geschöpfe in's Geschiirr gehen, beweise folgende Thatsache:—

"Ein junger Mann kommt in die Apotheke eines renommirten Apothekers mit den Worten: 'Say, sind Sie der Boss?' 'Ja, ich habe die Ehre.' 'Say, wie lange thüt's mich nehmen, den Trade zu lernen?' 'Wenn Sie fleissig sind zum mindesten 3 bis 4 Jahre.' 'Ach was, ich will selbst einen Store anfangen. Ich denke, in 4 bis 6 Monaten kenne ich all die Bottles und kann auch Prescriptions machen.' Sagte es und verschwand und in 6 Monaten hatte er richtig seine Apotheke. Wo, was und wie viel er gelernt, darüber schweigt des Sängers Höflichkeit."

That the first attempt to establish a pharmaceutical educational institution in Milwaukee was not a success, has already been referred to. It was due to the State Association, organized in 1880, that the Legislature less than three years later made special provisions for pharmaceutical education at the State University. Whereas, the druggists of Philadelphia, New York, Baltimore, Boston, St. Louis, Chicago, and of other cities had to rely on their own resources, the druggists of Wisconsin were in a more favorable position.

It had been the hope of many of the founders, that before long all prospective pharmacists would find it necessary to complete their pharmaceutical education at the State University. This, however, has not proven true so far. Indeed, a university course was and is considered an expensive luxury by many. It was also natural that for a time not a few would continue to go East and that others would select a college in a large city where they could find employment in a drug store while attending college. Especially for the apprentices and clerks of the numerous smaller cities and villages of our state, the

prospect of spending several months or years in one of the larger cities of the East or Northwest was a factor of no small import.

But with all the facilities for technical education, the majority of prospective druggists sought neither college nor university, but depended almost entirely on the experience gained in the stores and on such knowledge as they might privately acquire from books in order to pass the necessary examinations before the State Board since 1881.

The fundamental idea of the apprenticeship is that the apprentice is to receive theoretical instruction as well as guidance in practice. It is but natural that all pharmacists are not born teachers and that some apprentices, who could not go to college, were nevertheless desirous of receiving more guidance in their work than they received from their preceptor. Thus, *e. g.*, special instruction to candidates for the State Board examinations has been given by Mr. E. G. Raeuber, a graduate of the university class of 1889; by Mr. Roemheld of Milwaukee, and by Mr. R. Sommers, formerly of Colby, now of Milwaukee, both of whom received their education and training in Germany. Mr. Sommers a year ago even established a school for this purpose in Milwaukee, which has now been affiliated with the Milwaukee Medical College.

It would be of interest to secure biographical sketches of Wisconsin pharmacists and to get a better idea of how many supplemented their apprenticeship by college training, and where. Mention should also be made of the home courses which were taken by Wisconsin apprentices and clerks. The School of Pharmacy of the University of Wisconsin, as the principal educational factor of the state, will for this reason receive fuller treatment in this chapter.



View of the University from Lake Mendota.



*Monarda punctata.*\*

HE University of Wisconsin is a part of the free school system of the State. It was established by the constitution when the State was organized in 1848. The organic law establishing the university declares that its object shall be: "to provide the means of acquiring a thorough knowledge of the various branches of learning connected with scientific, industrial and professional pursuits." In the educational policy of the State, the University sustains the same relation to the high schools that the high schools sustain to the primary and grammar schools. As those who have successfully completed the grammar grades may freely avail

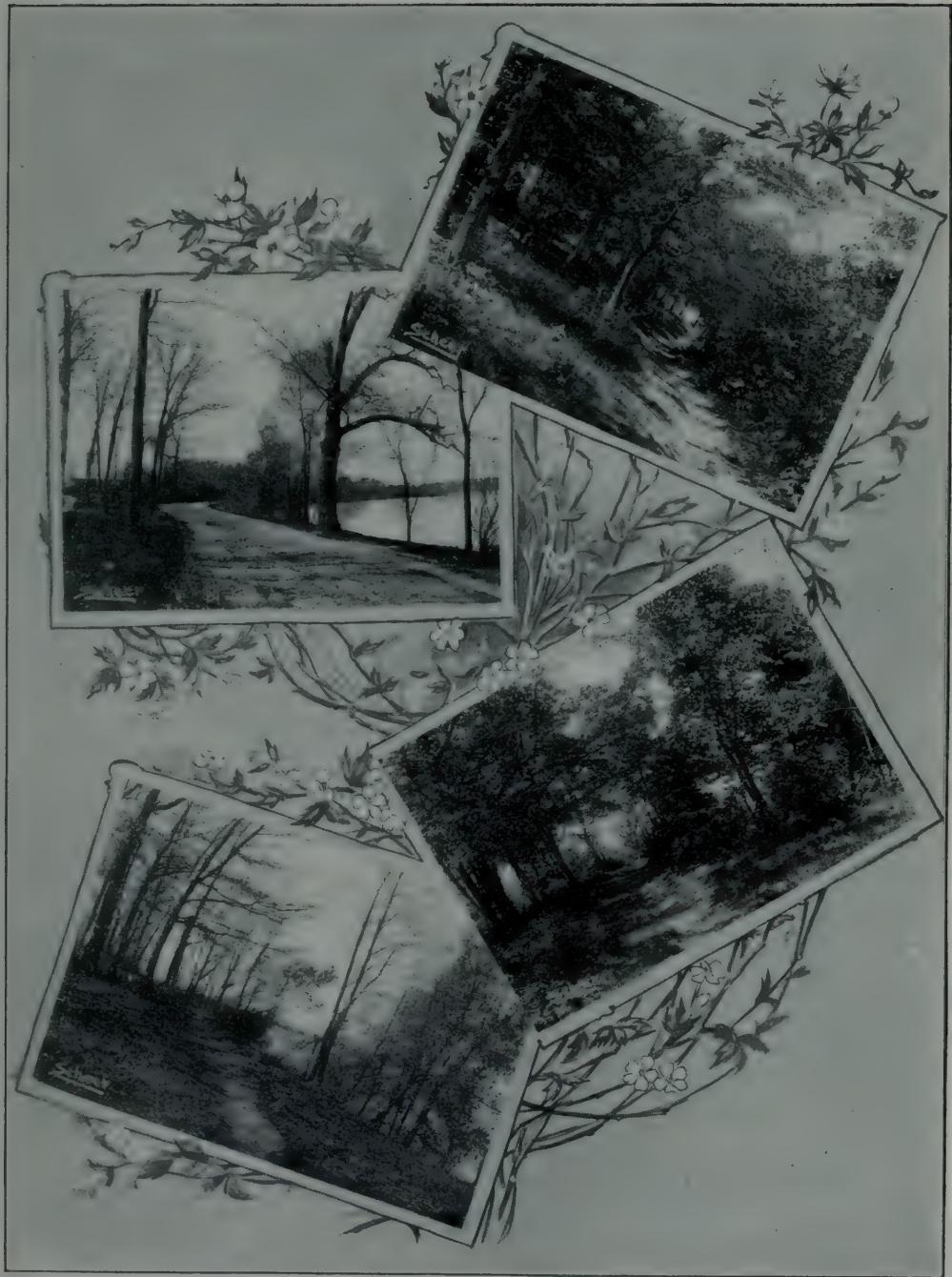


South Hall or Agricultural Hall.†

themselves of the advantages of the high schools, so those who have completed with credit any high school courses may advance to the opportunities offered by the university. The State through the university undertakes to furnish instruction in the various branches of a

\* This plant has been the subject of a botanical and several chemical theses by pharmacy students at the University.

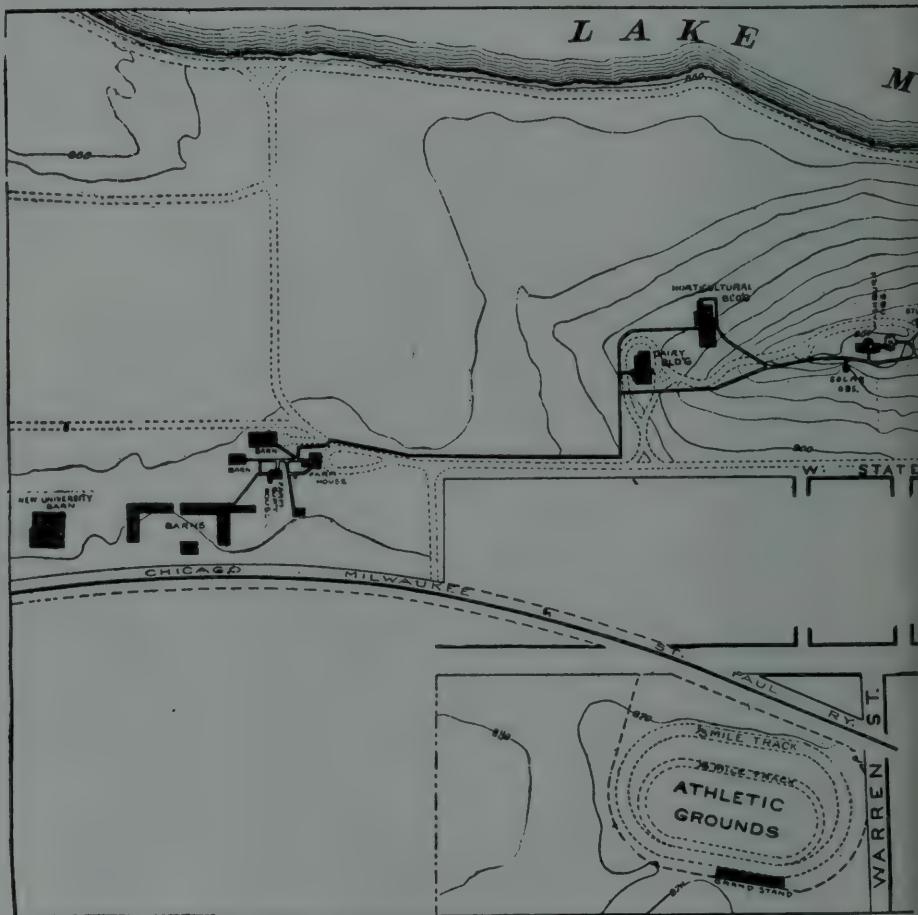
† Formerly a dormitory. The Pharmacy Department was housed in the rooms at the south end of the first floor during the academic year 1883—1884. From 1884—1890 the Department occupied all of the fourth floor.



VIEWS OF UNIVERSITY WOODS AND DRIVE

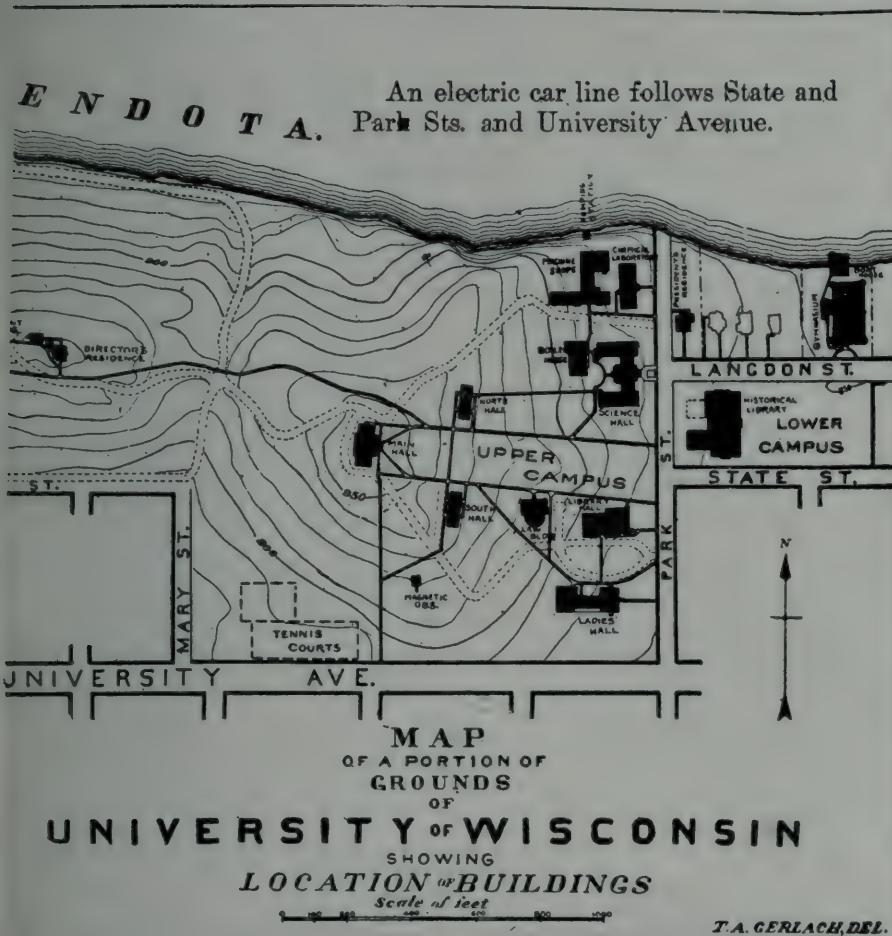
liberal education, as well as in the technical branches of agriculture, engineering, pharmacy, law, pedagogy, and music.

It is the general policy of the institution to foster the higher educational interests of the State, broadly and generously interpreted.



It is its aim to make ample provision for the demands of advanced scholarship in as many lines as its means will permit. By prescribing a large portion of the studies of the regular courses in the earlier

years, and by leaving a large number in the later portion to the selection of the student, it endeavors to give a wise measure of direction and at the same time leave sufficient room for choice to encourage individual adaptation and special development.



The university avoids all that is sectarian or partisan; but it endeavors to extend its sympathy and influence to whatever contributes to good citizenship and high character.

*Education.*

THE SUPPORT OF THE UNIVERSITY.

The university is supported partly by the income of federal grants, partly by taxation of the people of the State, and partly by private gifts. For such support there have been five federal grants, namely: The Two-Township Grant of 1848; The Supplementary Two-Township Grant of 1854; The Merrill Grant of 1862, for the support of studies pertaining to agriculture and mechanic arts; The Hatch Grant of 1887, for the support of agricultural experiment stations; and The Supplementary Morrill Grant of 1890.

Besides numerous appropriations for buildings and other specific purposes the State has made seven grants of a permanent nature, namely: the one-tenth mill tax of 1876, increased to one-eighth mill in 1883; the one-tenth mill tax of 1891; the appropriation for the support of the Observatory in 1887; the appropriation for the support of Farmers' Institutes of 1885, increased in 1887; the appropriation for the College of Engineering in 1889 of one per cent. of the railroad license tax; and the one-fifth mill grant of 1897. The Legislature of 1899 consolidated the various mill taxes, specified above, and the grant of one per cent. of the railroad licenses, into a specific annual grant of \$268,000. This sum is equal to the annual revenue from these various grants.

Of the private gifts that have come to the university, that of Dane County for the purchase of lands for the university farm, that of the late Governor C. C. Washburn for the founding of the Washburn Observatory, and that of the late Judge Mortimer M. Jackson for the establishment of the Mortimer M. Jackson Professorship of Law, have been the most considerable and important.

HISTORY AND LOCATION.

In 1838 an act was passed by the territorial legislature establishing the university of the Territory of Wisconsin, and appointing a Board of Visitors for its government. No action toward establishing the University was taken under this law except the selection of two townships of land appropriated by Congress. In 1848 the constitution of the State of Wisconsin made provision for the establishment of a State University.



SUNSETS AT MADISON.

In 1849 the Board of Regents held its first meeting and began the work of organizing the university. The first building (now North Hall) was constructed in 1851. Four years from that time South Hall (now Agricultural Hall) was completed, and in 1861 University Hall was finished. In 1866 the university was reorganized by act of the Legislature, which also provided for uniting with the university the College of Agriculture, endowel with the proceeds of the Agricultural College grant given by the United States in 1862. In 1867 the first appropriation, of about \$7,000 a year, was made by the State. Since that date the State has made repeated and large appropriations of money for the construction of buildings and for providing apparatus, and also for meeting the ordinary expenses of the institution. The College of Law was established in 1868; the College of Engineering began its work in 1870; the School of Pharmacy in 1883, and the School of Economics, Politcal Science, and History in 1892. The Summer School was organized in 1887, the School of Music in 1895, the School of Education in 1897, and the Summer Session of the University in 1899.

The University of Wisconsin is picturesquely situated at Madison, the capital of the State of Wisconsin. The university grounds comprise 300 acres, and extend for more than a mile along the south shore of Lake Mendota, a sheet of water about four miles in width and six miles in length. University hill occupies the eastern part of the grounds. It rises abruptly from the lake and has two summits, of which the eastern and higher reaches a height of about one hundred feet above the lake. Most of the college buildings are placed on the summit and eastern slope of this hill. The western part of the grounds is lower and more nearly level, and is occupied by the Experimental Farm, belonging to the College of Agriculture. East of the university hill lies a small tract known as the Lower Campus, used for athletic sports and as the drill ground. At the session of 1893 the Legislature provided for the purchase of Camp Randall for an athletic field. This is a tract of ground including 42 acres, and joining the university grounds to the southwest. In 1898 160 acres were purchased for a special experimental farm for the College of Agriculture.



SOUTH HALL.  
UNIVERSITY HALL.

LAW BUILDING.  
GYMNASIUM AND BOAT HOUSE.

The buildings of the university which are used for instructional purposes are thirteen in number. The three oldest, University Hall, North Hall, and Agricultural Hall, stand on or near the eastern summit of university hill. Agricultural Hall is occupied by the offices, lecture rooms, and laboratories of the College of Agriculture; North Hall is used by the School of Pharmacy, and the departments of Ger-



Science Hall.\*

man and Oriental languages; while University Hall contains the lecture rooms for most of the remaining departments of language and literature. These buildings were originally erected out of the money derived from sales of land granted by the national government. University Hall has been greatly enlarged during 1898-'99 by the addition of a large wing on the south side. This contains the offices of the President, the Dean of the College of Letters and Science, and the

\* Pharmacy students take their work in Physics in this building. Biology, physiology, mineralogy etc. are also taught here.



SCENE ON MENDOTA DRIVE.

SCHLESINGER

Registrar, a large lecture room seating about four hundred persons, besides numerous offices and recitation rooms. Across the east front of the campus, at the foot of university hill, is a row of more recent buildings, all of them erected at the expense of the State of Wisconsin. At the south is Ladies' Hall, built in 1870, remodeled and enlarged in 1896, and used as a dormitory for young women; next



University Hall.\*

stands the Library and Library Hall, completed in 1879. Still further north is Science Hall, the largest and most costly of the university buildings, completed in 1887, containing the lecture rooms, laboratories, and museums of most of the scientific departments of the university, and those of the College of Engineering. Next to Lake Mendota is the Chemical Laboratory, built in 1885, and behind this is the Machine Shop, erected in the same year and greatly enlarged in 1894. Near this building is the Central Heating Plant, built in 1894. Half-way up the slope of university hill, on the south side, is the building

\* As the older pharmacy students will remember it, before the south wing was added.



UNIVERSITY HALL, WITH NEW SOUTH WING,  
in which are located the offices of the President and Registrar.

for the Law School, which, in addition to the library and lecture rooms of the College of Law, contains the offices of the Board of Regents, and the rooms of the School of Economics, Political Science, and History. Opposite the Law Building, on the north side of the campus, now stands the new building of the College of Engineering, for which the Legis-



*Interior of the old Library.\**

lature of 1899 has appropriated \$100,000. On the western summit of university hill is the Washburn Observatory, built in 1878 by the late Hon. C. C. Washburn, and presented to the university. Near it are the Students' Observatory and the astronomer's house. On the western slope of the hill is the building for the departments of horticulture and agricultural physics. Provision for an enlargement of the Dairy

\* The portraits are those of former presidents and professors, including that of Professor Power, presented to the University by the pharmaceutical alumni who graduated previous to 1892.

School and a Central Heating Plant was made by the Legislature of 1899. The laboratories for horticulture were built in 1893, and the building was completed in 1896. Further west lie the numerous buildings of the Experimental Farm and the dwelling house for the Dean of the College of Agriculture. Between the lower campus and the lake is placed the Armory and Gymnasium, authorized by the Legislature of 1891, and still nearer the lake is the University Boat



Law Building.\*

House and the Rowing Tank. On the western part of the Lower Campus is the new Library for the State Historical Society and the university.

#### ORGANIZATION.

The University of Wisconsin comprises four colleges and two schools, each consisting of a number of departments. The colleges are: 1. the College of Letters and Science; 2. the College of Agriculture; 3. the College of Mechanics and Engineering; 4. the College of

\* This building also contains the office of the Secretary of the Board of Regents. Here also pharmacy students listen to lectures on "Economic functions of the state" and "Law applied to pharmacy."

Law. The schools are: 1. the School of Pharmacy; 2. the School of Music. To these should be added the "Department" of Graduate Study, comprising all departments, without respect to college or school, offering graduate work. In the College of Letters and Science, some of the numerous departments are likewise grouped into schools, *e. g.*, the School of Economics and Political Science, the School of Education and the newly established School of Commerce. The administrative officer of the university is the President, the administrative officer of a college is a dean, of a school a director. Each department, when fully developed, has its head professor with associate or assistant professor, or both, instructors and assistants. The "General Faculty" consists of the members of the several faculties, with the exception of that of the College of Law. In the "General Faculty" matters of general university policy only are considered, the several sub-faculties regulating their internal affairs in accordance with the rules of the General Faculty and of the Board of Regents.

The students register in one of the colleges or schools, but are by no means limited in the choice of their studies to the college or school in which they register. They also register for a particular course of studies, *e. g.*, the Ancient Classical Course, the General Science Course, the Civil Engineering Course, the Electrical Engineering Course, the Two-Years' Pharmacy Course, the Four-Years' Pharmacy Course, etc. In accordance with their choice of studies and their degree of advancement, students are assigned to class-officers, members of the faculty, who act as their advisers.

#### GOVERNMENT.

In accordance with the constitutional requirement, the university is governed by a Board of Regents appointed by the Governor of the State, but more directly by the faculty appointed by this Board. The university being maintained at public expense, the government of the institution rests upon the inherent obligations of students to the university and to the State. As members of the community, students are amenable to the law.

## The School of Pharmacy.

As stated in a previous chapter, work in pharmacy at the university began in 1883. In the general introduction (page 11), also in the brief account of the State Pharmaceutical Association (page 50), attention was called to the fact that this department of work was established by special legislative act at the request of the druggists of this state. A very interesting account of the history of school during the first nine years of its existence, has kindly been written by Dr. Frederick B. Power, who during that period was Professor of Pharmacy and Materia Medica at the university and who had general charge of the instruction in pharmacy.

"I arrived in Madison in August, 1883, in response to a call from the Board of Regents, through the medium of Dr. John Bascom, then President of the university, for the purpose of organizing and conducting a School of Pharmacy in connection with the university. An appropriation for this purpose had been made by an act of the State legislature at the preceding session, conjointly with an appropriation for the establishment of an Agricultural Experiment Station. As the time of any arrival in Madison was during the summer vacation, the President and most of those in authority were out of town, and as no arrangements had previously been made by them respecting the requirements of the Department or even the rooms it should occupy, and it had been announced that the instruction would begin at the opening of the university in September, my position was at first one of considerable perplexity and anxiety. I may mention, incidentally, that on my journey to Madison I had the pleasure of a short visit at Ann Arbor, and of meeting Professor Prescott, who is still in active service, and from whom I received much encouragement and valuable suggestions regarding the organization of the school. These were particularly appreciated in view of the fact that at that time the University of Michigan stood quite alone among the higher educational institu-

tions of the country in its recognition of the importance of pharmaceutical instruction, and in possessing a School of Pharmacy which formed an integral part of the university. Of such schools, therefore, as distinguished from the numerous Colleges of Pharmacy throughout the land, that of Wisconsin University was the second in the order of their establishment.

My first personal acquaintance in Madison was Mr. A. H. Hollister, then a member of the State Board of Pharmacy, who had taken a deep interest in the establishment of the school, and throughout the entire period of my connection with it was one of its firmest friends and supporters. Through him I soon became acquainted with Mr. Adam Conrath, an accomplished pharmacist of Milwaukee, and then also a member of the State Board of Pharmacy, who, in the earlier years, actively aided in promoting the interests of the school, not only in his own city but throughout the State. My first acquaintance with the Faculty of the university likewise began in the store of Mr. Hollister, where I had the pleasure of meeting the venerable Dr. Sterling, formerly Professor of Mathematics, but then retired, and the talented Professor Allen, both since deceased. From these two gentlemen I received a most kindly welcome.

While awaiting the return of the President my time was occupied in preparing an announcement of the course in pharmacy for circulation among the druggists of the State, which necessitated an arrangement with the Professors of Chemistry, Analytical Chemistry, Physics and Botany, in order to complete the provisional course of instruction. In this endeavor I was aided by the kind services of:

Professor Daniells in chemistry,  
Professor Van Hise in Analytical Chemistry,  
Professor Davies in Physics, and  
Professor Trelease in Botany,

while reserving for myself the instruction in pharmacy and *materia medica* or *Pharmacognosy*. A list of all the material required for the equipment of the school had to be prepared, such as apparatus, chemicals, *materia medica* specimens, etc., as well as my own courses of lectures. For these I adopted a plan, with some necessary modifications,

similar to that pursued by the late Professor Flückiger in his lectures on Pharmaceutical Chemistry and Pharmacognosy at the University of Strassburg.

Upon the return of the President it was decided that the only rooms then available for my use were those on the first floor and south side of the building, known as South Hall. These comprised a series



DR. FREDERICK BELDING POWER.

From an article on the School of Pharmacy published by Dr. Hoffmann in the Pharmaceutische Rundschau of 1890.

of apartments which had previously served as bedrooms for the students, and they were exceedingly bare and uninviting in appearance. With the aid of the university carpenter the doors were removed which had separated the two larger ones, probably the *drawing rooms*, and this space, small and narrow, after being provided with a table, gas and water, was used during the first winter as a pharmaceutical labo-

ratory. The other smaller rooms adjoining were obliged to serve respectively as office, balance room, store rooms, etc. There was a wood stove in the laboratory, but the other rooms were not heated, and with a temperature outside of frequently 10 or 20 degrees below zero the quarters of the Professor of Pharmacy can not be said to have been particularly comfortable nor possessing "all the modern improvements." Through the kindness of the Professor of Botany I was permitted to use his lecture room, although this was provided with neither gas nor water. Some few experiments could be shown with the aid of an alcohol lamp, but all test-tubes or other apparatus which required cleaning had to be taken to the basement, where there was the luxury of a sink, and this work had to be done by myself.

At that time a portion of the second floor was used by the Professor of Botany as an office and laboratory, and the Professor of Agriculture had an office on the third floor, the fourth floor being unoccupied. With these hastily improvised quarters it was possible, I believe, to begin the first course of lectures on pharmacy about October 1, 1883. It was not practicable to give any lectures on *materia medica* during the first session, for in the first place the specimens had not arrived for demonstrating them, and the larger number of students were entered for the first year's course, only three being accepted for the second year's course, Messrs. Brainerd and Sherman, who had come from the Chicago College, and Mr. Foster, who was a graduate in science of the university. Thus at the expiration of the first year there were three who received their diplomas as Graduates in Pharmacy.

In consideration of the number of students, and the probable growth of the department, the Regents of the university decided in the spring of 1884 to make some material improvements in South Hall, and to assign to the School of Pharmacy the entire fourth floor of the building, while the third floor was adapted to the immediate requirements of the Agricultural Experiment Station for their offices and laboratory. In comparison with the rooms occupied the previous year, the new quarters might have been considered luxurious. The rooms on the north side of the hall were used as an office and private laboratory of the Professor of Pharmacy, the large room in the central part of the building served as a lecture room and for a cabinet of speci-

PROFESSOR POWER'S OFFICE AND PRIVATE LABORATORY, 1890.



mens, while the section at the south end of the building was used as a laboratory. It was during the occupancy of these rooms that Professor Edward Kremers entered the School of Pharmacy as a senior student, having taken his junior course at the Philadelphia College of Pharmacy, and it was in the little laboratory situated there that he conducted his first investigations on the essential oils.

It was not long, however, before the School of Pharmacy had developed beyond the limits of space allotted to it in South Hall, and as the rooms occupied there were required for the Agricultural Department it was decided to transfer it to North Hall. This, I believe, is the oldest building on the university grounds, and if a history of all the incidents connected with it could be written, it would undoubtedly be an interesting one. It had been occupied as a dormitory by students until nearly the time referred to, and required quite extensive alterations and repairs in order to adapt it to educational purposes. The third and fourth floors of this building were allotted to the School of Pharmacy. These were so arranged that the room on the north side of the third floor formed the office and private laboratory of the Professor of Pharmacy, while the other large room on the other side of the hall was made as a pharmaceutical laboratory, with a section partitioned off at the south end for an assistant's private laboratory, balance room, etc. On the fourth floor the north end was used as a library, and the large room over the laboratory served as a lecture room and museum. These quarters were first occupied in 1889, and, with some changes and extensions made since my departure in the spring of 1892, I believe, still represent the home of the school.

During the period of nine years that I was connected with the Pharmacy Department of the university a considerable number of investigations were conducted by the students, which were contributed for the most part to the *Pharmaceutische Rundschau*, a journal representing the highest ideals of pharmacy in its scientific and professional or educational aspects, and then edited by Dr. Frederick Hoffmann, of New York.\* This journal has since become still more closely identi-

\* An excellent, illustrated sketch of the School from the pen of Dr. Hoffmann, appeared in the *Pharmaceutische Rundschau*, 1890, p. 175.



LECTURE ROOM FOR PHARMACY AND MATERIA MEDICA, 1890.

fied with the work of the school, having been conducted since 1896 by Professor Kremers under the title of the *Pharmaceutical Review*.

During the first four years of my connection with the school the President of the university was Dr. John Bascom, an eminent scholar and most excellent executive and teacher, who had faithfully served the university for a long period of years. The resignation of Dr. Bascom in 1887 was followed by the appointment of Professor Chamberlin as President of the university, but shortly after my departure from Madison in 1892 he also resigned, in order to pursue the more congenial scientific work as Professor of Geology in the University of Chicago. During his administration the new Science Hall was completed, replacing the one destroyed by fire a few years before, and in many ways the scientific interests of the university were promoted, while the number of students was also greatly increased.

Nearly seventeen years have now passed since the organization of the School of Pharmacy, a comparatively short period for a historical retrospect, but nevertheless the intervening years have been attended with many changes, which are naturally more apparent when the various departments which represent the university and its faculty are considered as a whole. Of the alumni of the school several have already passed away, others have made their homes in distant parts of the country, while many are filling positions of responsibility in their native States and are thus able to retain a closer connection with their *alma mater*.

A history of the School of Pharmacy would not be complete without some record of its alumni, for it is they who have made the existence of the school possible, and have contributed so largely to its success. But as I am not able to present this information it was necessary that these lines, which have already become much more extended than I had originally contemplated, should assume to a large degree the character of personal reminiscences. If it were possible I should desire also to mention the names of many of those who, although unofficially connected with the school, both actively aided in securing its establishment and subsequently by their encouragement and personal

\* President Chamberlain, while a professor at Beloit College, was made an honorary member of the Rock County Pharmaceutical Society.

PHARMACEUTICAL LABORATORY, 1890.



efforts constantly evinced such a deep interest in its welfare. In this connection I have already mentioned Mr. A. H. Hollister of Madison, and Mr. Adam Conrath of Milwaukee, and I should also refer to the services rendered by Mr. Edwin Sumner of Madison, and the late Mr. Frederick Robinson of Kenosha, and Mr. John A. Dadd of Milwaukee. It was a privilege to have known and to have enjoyed the personal friendship of these genial gentlemen, and the two who have passed away are especially entitled to a place of lasting honor in the annals of the school.

With the changing scenes which attend the flight of the years it is safe to assume that, however widely separated teachers and students may become, they will not forget the associations that cluster around that grand temple of learning—the University of Wisconsin. They will remember the grassy slopes of the hill, the beautiful lakes, the shady groves, the quiet town with its peaceful and happy homes, and above all they will retain, it is hoped, a memory of personal attachments and friendships which neither time nor space can efface.

Very truly yours,



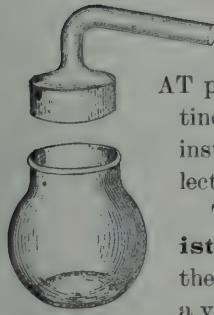
LONDON, March 1, 1900.



WILD RICE AND ERGOT OF WILD RICE.

Collected by Wisconsin Indians and in possession of the Drug Cabinet.

## Organization of the School.



Combination  
weighing and dis-  
tilling flask for  
pharmaceutical  
assaying, designed  
by Prof. Kremers.

AT present the School of Pharmacy consists of five distinct departments, each provided with one or several instructors, and a well equipped laboratory and collections.

The **Department of Pharmaceutical Chemistry** exists as such since 1892. Students take up the work of this department only after they have had a year's work in general chemistry. General Chemistry is taught in the "Chemical Laboratory," a special building provided for this purpose. The Pharmaceutical Chemical Laboratory is located on the third floor of North Hall. The cut on the following page gives a fair idea of the arrangement of the laboratory tables. The courses offered for



CHEMICAL BUILDING.

In this building pharmacy students, with students from all other departments studying chemistry, begin the study of this science. They also take gravimetric analysis here during the second year and other courses which they may elect.

1900—1901 in the Catalogue of the University indicate the character of work of this department.

1. Pharmaceutical and Phaeognostical Chemistry. This course consists of a review of general chemistry, inorganic and organic, with special adaption of the subject matter to the interests of pharmacy. Richter's Inorganic Chemistry, Bernthsen's Organic Chemistry. Two lectures and one recitation. *M., Tu., Th.* Professor KREMERS.

2. Applied Chemical Analysis. Chemical analysis, qualitative and quantitative, gravimetric and volumetric, in its application to pharmacy. This will be chiefly a laboratory study. It will not, however, be merely a study of methods, but also of chemical principles involved. Professor KREMERS.
3. Reviews with critical reading of the text of the U. S. Pharmacopœia as far as chemicals are concerned. W. Mr. SCHREINER.



Pharmaceutical Chemical Laboratory.

4. Nitrogen derivatives of the carbon compounds preparatory to the study of alkaloids and ptomaines. For advanced students and graduates. *Lecture, W.* Professor KREMERS.
5. The classification and study of the constituents of volatile oils. For advanced and graduate students. *Lecture, W., first semester.* Professor KREMERS.
7. Advanced laboratory work and thesis adapted to the individual. Professor KREMERS.
8. Physiological Chemistry. (a) A study of foods, body fluids, etc. Chemical analysis as applied to physiological chemistry. (b) A microscopic and chemical study of urine, blood, sputum, etc. Laboratory work supplemented by lectures and recitations. Mr. HITCHCOCK.

The **Department of Pharmaceutical Botany** was established in 1892 with an instructor in charge. In this department instruction is given in elementary plant biology as a preparation for the more specialized studies of vegetable anatomy and pharmacognosy. This general course is followed by the course in anatomy.

The department of pharmaceutical botany is housed (with pharmacognosy) on the fourth floor of North Hall. The large room occupying the middle part of this floor serves as a laboratory for the courses in pharmaceutical botany and pharmacognosy. It is equipped with tables, chairs, microscopes and lockers for thirty-five students. For the more advanced students there are drying ovens, paraffin baths, microtomes, camera lucidas, etc. At the south end of this room an herbarium of several thousand mounted specimens of flowering plants and ferns is stored.

At the present time the department offers six courses, three required of pharmacy students (elective for all others) and three general elective. The courses offered by Professor Cheney are:—

1. General Morphology of Plants. An elementary course. First semester, the morphology of fungi, algae, lichens, mosses, and ferns, illustrated by selected types. Second semester, the form and structure of the organs of seed plants, the identification of selected flowering plants and the preparation of an herbarium. The course will be supplemented by botanical excursions. Excursions on Saturdays.
2. Vegetable Histology. Systematic study of the tissues of phanerograms and ferns. Use of reagents and stains, models of embedding, section cutting and mounting. *Five times a week first semester, three times a week second semester.* The work in this course is so arranged that students electing it may take it in either semester or both. For three and four-year students.
3. Vegetable Histology. The same as the course just preceding for the first semester. For two-year students.



PROFESSOR L. S. CHENEY.

4. Trees and their Characteristics. A course designed for those who desire to acquaint themselves with forest trees. It contemplates a study of the vegetative and reproductive structures; the general habit and conditions of growth; the anatomy of the wood, etc. Lectures and laboratory work with occasional excursions. Those who expect to take this course should know how to use a microscope and should have had at least the equivalent of one semester's work

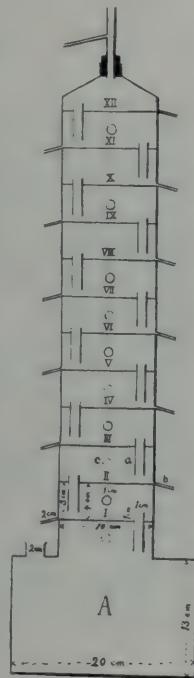


General Laboratory for Pharmaceutical Botany and Pharmacognosy.

in general botany. *Twice a week throughout the year.* May be taken either semester or both. Hours to be arranged on consultation.

5. Advanced Work in Anatomy. Special subjects for original investigation will be assigned to such students desiring to do advanced work as are properly qualified.
6. Classification of Flowering Plants, Ferns and Mosses. A course intended for those who wish to equip themselves for identifying plants in the groups named above. The work will necessarily be of an individual character. Amount of work and hours to be determined upon consultation. *Throughout the year.*

The **Department of Pharmaceutical Technique** grew out of the course of introductory lectures in pharmacy given by Professor Power. With the rearrangement of the courses in 1892 these lectures were given as a separate course on pharmaceutical operations and manipulations. The necessity of giving some laboratory work soon became apparent. With the appointment of Dr. Kahlenberg as instructor in 1895 this work was assigned to a separate department. It is now equipped with apparatus and material for a more detailed and applied study of such chapters of mechanics and physics as are of special importance to the pharmaceutical student. It contains balance models for showing the principles of the balance experimentally, and is liberally supplied with accurate chemical balances of various makes for determining specific gravity, calibrating measuring apparatus, and for other work requiring accurate weighing. The laboratory is supplied with apparatus for fractional, steam, destructive and vacuum distillation, together with working models of technical distilling columns. It contains a large water motor and several smaller ones, for running a centrifugal machine, stirring, powdering, sifting and shaking apparatus. An electric and hot air motor will be added during the present year for running the larger comminution and shaking apparatus. The laboratory is also supplied with a number of larger instruments for the determination of physical constants, a Laurent's polariscope, a Pulfrich's refractometer, Beckmann's boiling and freezing apparatus for determining molecular weights, Victor Meyer's and Dumas' apparatus for determining vapor densities, Hare's apparatus and Jolly's, Mohr's and Sartorius' balances for specific gravity work, etc. It also contains thermostats for constant temperature work, apparatus for making solubility determinations, and for calibrating thermometers, flasks, graduating burettes and pipettes, blow pipes for glass blowing, and a well equipped work bench for subjects of a mechanical nature. Besides these the laboratory is liberally supplied with appa-



Experimental column, designed by Mr. Schreiner, to demonstrate the process of fractional distillation.

ratus for conducting the processes of distillation, sublimation, comminution, extraction, solution, filtration, crystallization, drying, etc.

The department also contains a collection of apparatus used for the above processes. Its object is to give to the student more of a variety of apparatus than can be used in the laboratory. Thus it contains a full series of distilling columns, distilling flasks and ap-



Laboratory for Pharmaceutical Technique.

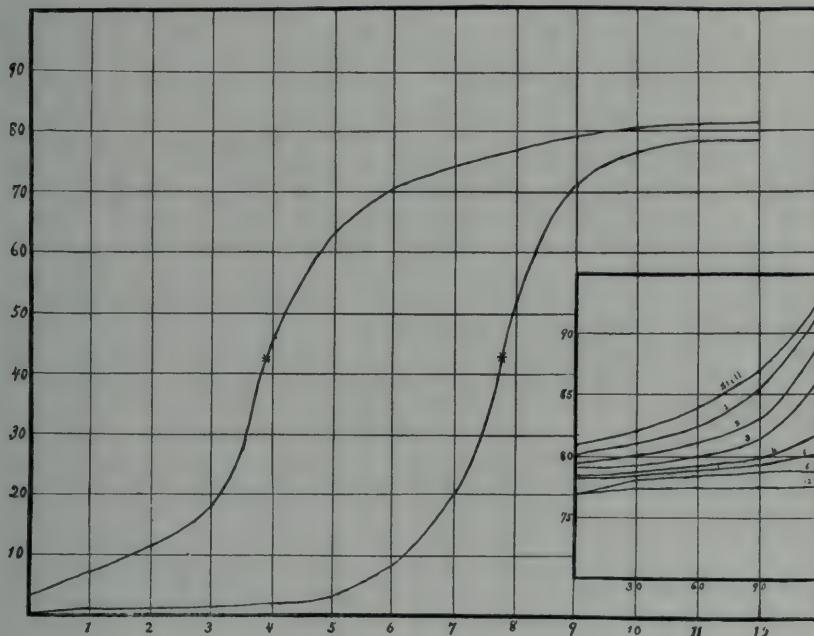
paratus, a long line of Bunsen burners of various styles, etc. It also contains a large number of apparatus set up as models for the student. These collections are used in the lectures, as is also a collection of drawings, photographs, etc., of apparatus for conducting various processes. It also contains charts illustrating the apparatus in the more important chemical industries. The department has also recently added a lantern and lantern slides of much technical apparatus for lecture purposes.

The accompanying cut and the courses offered by Mr. Oswald Schreiner will give a fair idea of this department:

1. Pharmaceutical Operations. Laboratory practice in technical processes and the use of apparatus commonly employed in pharmaceutical laboratories and in technical chemistry. Principally laboratory work,

supplemented by lectures and recitations. Required of all juniors.  
*Three-fifths for the first semester.*

2. The Determination of Physical Constants and their Application to Pharmaceutical and Chemical Problems. Principally laboratory work, supplemented by lectures, recitations, and topic work. Required of all juniors. *Three-fifths for the second semester.*
3. Molecular Weight Determinations. A detailed study of the molecular theory and molecular weight determination by chemical and physical



Curves showing the experimental results obtained in the fractionation of alcohol with the experimental distilling column.

methods. This course must be preceded by course 2. Lecture and laboratory work. *Two-fifths for the first semester.* Given in 1899-1900.

4. Optical Rotatory Power. A special study of the action of organic compounds on polarized light, and the application of the polariscope to scientific investigation and its use in the arts. This course must be preceded by course 2. Lecture and laboratory work. *Two-fifths for the second semester.* (Given in 1900-1901.)
5. Advanced work adapted to the individual, including laboratory work in preparation for thesis.

The **Department of Practical Pharmacy** was established in 1894 with its special laboratory and instructor. Some work in galenical pharmacy, however, had been done as part of the laboratory work in the original course in "Pharmacy." The work of this department has grown ever since its establishment, and its equipment has grown correspondingly. Besides the general equipment of a pharmacy and laboratory of manufacturing pharmacy various forms of special apparatus have been procured and there is now being installed an electric motor for driving drug-mills, stamping-mills, sieving, stirring and shaking apparatus, etc. The laboratory



PROFESSOR RICHARD FISCHER.

work is arranged for individual rather than for class instruction. Dr. Richard Fischer, who held the position as instructor from 1894-'98, has now returned from a leave of absence, having spent two years in study at German universities. The courses offered during the past year are:

1. Theory and Practice of Pharmacy. Class work, *two hours a week during both semesters.*

History of pharmacopoeias and discussion of U. S. Pharmacopoeia. Review of subject of metrology. Pharmaceutical operations, as comminution, solution, crystallization, filtration, percolation. Galenical preparations, as solutions, tinctures, fluid extracts,

spirits, pills, suppositories, ointments, plasters, etc. Apparatus used in pharmaceutical operations brought before the class and discussed. Prescription reading. Incompatibilities.

2. Operative Pharmacy. Laboratory work. *A three-fifths course throughout the year.*

Examination of commercial articles, chemicals, and vegetable drugs, including assaying of the latter. Manufacture of galenical preparations, chemicals and scale salts, and testing of same when



PRESCRIPTION COUNTER.

A view of the Laboratory for Practical Pharmacy.

finished. Preparations are so selected as to represent all classes official in the U. S. P.

Compounding of physicians' prescriptions with special reference to those cases in which difficulties are liable to occur.

3. Operative Pharmacy. Laboratory work. For juniors of the three and four-years' course. *Two-fifths during the second semester.*

This course is continued during the senior year as course 2, being merely an extension of the latter.

4. Special work adapted to the individual, including laboratory work in preparation for thesis.

The **Department of Pharmacognosy** grew out of the former course in *Materia Medica* given by Professor Power. With the division of labor effected in 1892, greater stress was laid on the more elementary studies of biology and plant histology.



Betel Palm.\*

However, a course on the anatomy of drugs was given by Prof. Cheney; lectures on some of the principal drug-yielding families were given by several persons, and students' collections were begun. At the close of the World's Fair at Chicago, the Board of Regents allowed a considerable sum of money for the purchase of valuable collections and for cabinets and containers. Provisions had also been made for an assistant in this department. A year later Dr. R. H. True was appointed as instructor, and was advanced to assistant professor two years later. With the resignation of Dr. True, arrangements were made to give more attention to the chemical side of the study of drugs, also to the physiological and therapeutic aspect.

Betel-chewing cabinet  
from Johore  
in possession of  
Drug Cabinet.



\* From photograph in Drug Cabinet.

For the present year, Mr. W. O. Richtmann holds the position of Instructor. Besides the lectures, he has charge of the chemical work of the course. Mr. R. H. Denniston has been reappointed Botanical Assistant and Custodian of the Drug Cabinet, Dr. S. R. Boyce is Lecturer on Physiology and Therapeutics. Thus all aspects of this broad subject will receive due consideration.

The Drug Cabinet has grown until it now contains over five thousand inventoried numbers. As soon as more space can be provided and new containers can be obtained, more specimens, now stored away, will be added. During the past year special attention has also



DR. SAMUEL R. BOYCE.

been given to animal drugs and organo- and sero-therapeutic preparations. The courses offered in this department are as follows:

1. Lectures. This course is meant to present to the student the main facts of the natural history of the plants yielding drugs, as, botanical description, habitat, history and cultivation, as well as the more strictly applied information. This course supplements the work done in the laboratory with the drugs themselves. *Two lectures per week during the second semester of the junior year and three per week during the first semester of the senior year.* Required of three and four-years students.
2. Laboratory work for three-year or four-year students. Students are required to arrange systematically a collection of drugs, the material for which is in part purchased and in part collected by the students themselves. Drawings of the drug and of the preparations made by the students themselves call attention to the details of

aspect and structure. Three-fifths work during the first semester of the senior year. The first half of the second semester is spent in the study of the principal groups of chemical constituents of drugs, such as alkaloids, glucosides, etc. During the second half of the second semester the time will be largely devoted to topic work. Required of seniors of the three and four-year courses.

3. This course will consist of text-book work supplemented by lectures and topics. The official and the most important non-official drugs will be studied. Text used: Sayre's *Organic Materia Medica* and



A view of the Drug Cabinet.

Pharmacognosy. *Two-fifths, first semester; one fifth, second semester.* Required of two-year seniors.

4. The laboratory work for two-year students will consist of an abridgement of course 2. Little microscopic work will be required. *Four-fifths in second semester of senior year.*
5. For Pre-Medical Students. An abridgement of the work given to pharmacy students is offered for those intending to study medicine. As far as may be, the methods used are those detailed for the foregoing courses. No drug collection is required and no microscopic study is expected. *Three-fifths course during first semester.* The lectures and two hours laboratory work per week.
6. Advanced laboratory work and thesis adapted to the individual.

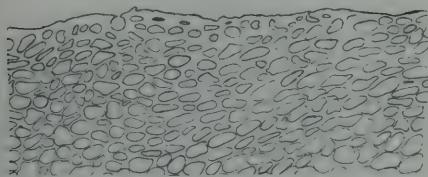


Fig. 1.

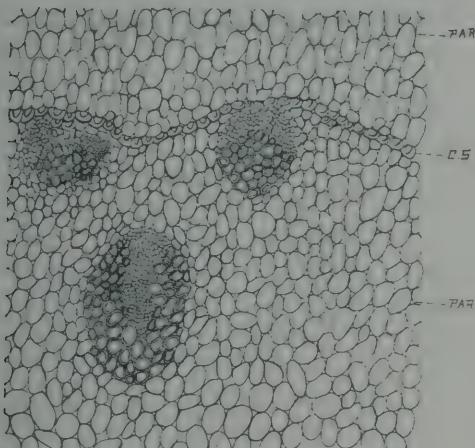


Fig. 2.

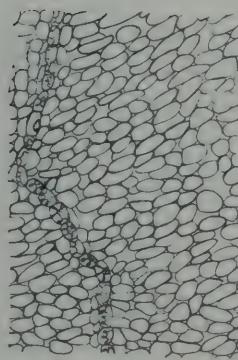


Fig. 4.



Fig. 5.

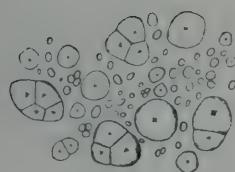


Fig. 3.

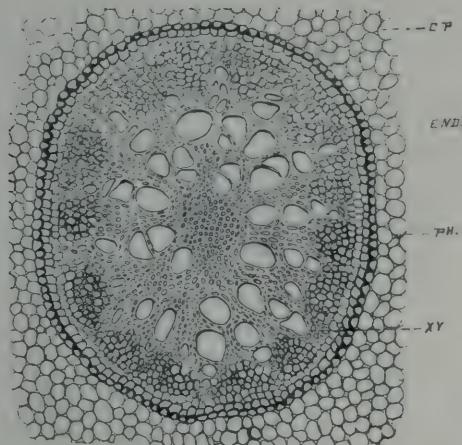


Fig. 6.

R. H. DENNISTON.—*VERATRUM VIRIDE* AIT. AND *VERATRUM ALBUM* L.  
A COMPARATIVE HISTOLOGICAL STUDY.

Illustrating some of the work done in the Pharmacognostical Laboratory for the  
U. S. Pharmacopœia Revision Committee.

Although the courses briefly outlined above represent the work of the five departments constituting the School of Pharmacy, the work of the pharmacy student is by no means limited to these studies. Not only is he required to take certain studies offered by the General Chemical Department, the Department of Physics etc., but he has the choice of any course offered in the university for which he has the necessary preparation. Thus the work in general and pathogenic bacteriology, sanitation and hygiene, urine and water analysis, physiology etc. are frequently taken as electives. Special courses for pharmacy students are also given on "First aid to the injured" by Dr. Head, a local physician; on "The economic functions of the state" with special reference to pharmacy by Dr. Meyer, of the School of Commerce; and on "Law applied to pharmacy" by Professor Gregory, Associate Dean of the College of Law. Lectures on special subjects by pharmacists are also provided for. During the past semester such lectures were delivered by Mr. E. Raeuber, Manager of the Wisconsin Pharmacal Co. at Milwaukee, and by Mr. E. T. Eberle of Watertown.

Not only has the undergraduate work been strengthened materially, but graduate work has been accomplished as well. This work was stimulated in 1894 by the establishment of a Druggists' Fellowship in Pharmacy. At the Racine meeting of the Wisconsin Pharmaceutical Association, a number of druggists expressed their willingness to assist in maintaining such a Fellowship. The druggists of Wisconsin, therefore, enjoy the distinction of having established the first pharmaceutical fellowship for advanced work. A year later, Mr. August Uihlein of Milwaukee established a fellowship at \$400.00 per annum for two years. This generous offer was duplicated by Mr. Fred Pabst also of Milwaukee. The August Uihlein Fellowship, however, has been renewed every year thus far, so that Mr. Uihlein has contributed to the U. W. not less than \$2400.00 for advanced pharmaceutical studies and research. Several years ago Mr. Fred Vogel, also of Milwaukee, donated \$500.00 to the School, which sum was divided into a graduate scholarship of \$250.00 for two years. For both years a graduate scholar was appointed who was prepared to give a laboratory course in physiological chemistry. The U. S. P. Revision Committee 1890—1900 has also maintained graduate students in the departments of pharmaceutical chemistry.



V. W. Allen      G. A. Shields      C. C. Thomas      R. J. Strauss      F. H. Hatton      J. A. Thomas  
G. H. Kopf      E. A. Showalter      A. H. Woltersdorf      A. N. Tandvig      F. W. Eighty      H. Klueter      F. R. Dexheimer

SENIOR CLASS 1899-1900.

and pharmacognosy for research along pharmacopoeial lines. The results of most of the investigations carried on by the holders of these fellowships and scholarships will be found in the chapter devoted to alumni.

For the extensive collections, the School is in part likewise indebted to its friends. Among the principal donors are (arranged alphabetically): Paul Bunge, Hamburg, Germany; Fox Fultz & Webster, New York; Fries Bros., New York; Fritzsche Bros., New York; Gilpin, Langdon & Co., Baltimore; Lehn & Fink, New York; Parke, Davis & Co., Detroit; Schieffelin & Co., New York; Prof. Wm. Simon, Baltimore; Springer Torsion Balance Co., New York; United Alkali Co., London, England; Utard & Co., New York.



C. L. Lehmann   J. L. Forsyth   O. A. Soell   J. H. Williams   B. J. Swanton

SOPHOMORE CLASS 1899—1900.

The department library has more than trebled in recent years. Not only has the library received its share of the general library appropriation, but through the Pharmaceutical Review, numerous exchanges etc. have been placed at the command of the student body. Exchanges of duplicates have also been effected, e. g. with the Lloyd Library and the Chicago College of Pharmacy. Donations have also been received from Wisconsin druggists. It is to be hoped that they will continue to regard the University Library not only as a safe repository for their books and journals, but also as the place where they will do the most permanent good. This pharmaceutical library is one of the best and largest in the country and should be as freely consulted and used by the druggists as it is supported by them. It may be possible that in a not distant future a catalogue of the library can be prepared for the use of the druggists of Wisconsin.



I. E. Slightam C. W. Check F. H. Chamberlain C. Neumann J. A. McIntosh J. C. Nelson  
W. L. Treber C. B. Eastman T. G. Whiteside A. R. Ebner  
W. R. Downer W. H. Walker A. Kremlis, Jr. H. M. Brook J. A. Treber  
E. W. Dieffenbach E. C. Rose A. E. Kunkert E. Proulx E. A. Ross

JUNIOR CLASS 1899-1900.

### Summer Session.

In the spring of 1900 the Board of Regents established a short course in Pharmacy to be given during the summer session of the University. This is expected to meet the educational needs of a large number of apprentices and drug clerks who cannot for one reason or another avail themselves of the longer courses offered by the University, but who, nevertheless, desire as thorough training in the pharmaceutical sciences as time and means permit. The courses offered will enable every one to secure a systematic preparation for the State Board examinations. In order that the subjects to be taught might fully meet the requirements of those for whom they are primarily intended, the State Board of Pharmacy has been consulted. The members of this Board have kindly co-operated in



S. Denis                    J. A. Watson                    W. K. Ansorge  
F. C. Grimmer            H. A. Nietert

#### CLASS IN BOTANY OUT FOR FIELD WORK.

planning the scope of the courses at large and in working out the details of the specific courses as far as was possible for this first announcement.

This course will also enable those who have already passed these examinations to select such laboratory courses as they desire, for the purpose of supplementing their book knowledge and shop experience. Even graduates and proprietors of drug stores, whether graduates or not, who desire to combine work along some special line in connection with an outing, will find in Madison and the University an almost ideal place for such purpose.

### Phi Chi Fraternity.

In February, 1900, representatives of the University of Michigan and of Northwestern University established Chapter Delta of this pharmaceutical fraternity at the University of Wisconsin.

This Greek letter society has for its object the advancement of pharmacy and chemistry and the promotion of fraternal spirit and relations among its members.

The fraternity was established at the University of Michigan in 1883, and was incorporated under the laws of that state in 1895. Chapters have been established as follows: Alpha at the University of Michigan in 1883; Beta at Northwestern University in 1896; Gamma at the New York College of Pharmacy in 1898; Delta at University of Wisconsin in 1900.

The fraternity supports a periodical, "The Phi Chi Communicator," which keeps alumni in touch with their chapters. The Grand Council composed of delegates from each chapter meets annually, thus bringing together students of the different pharmacy schools.



#### HONORARY MEMBERS.

Edward Kremers, Ph. G., Ph. D.  
Richard Fischer, Ph. C., Ph. D.

Wm. O. Richtmann, Ph. G., B. S.  
Oswald Schreiner, Ph. G., M. S.

#### NON RESIDENT MEMBERS.

H. L. Klueter, Ph. G.  
G. H. Kopp, Ph. G.  
F. W. Eighmy, Ph. G.

E. A. Showalter, Ph. G.  
R. J. Strauss, Ph. G.  
A. N. Tandvig, Ph. G.

#### ACTIVE MEMBERS.

I. W. Brandel, Ph. G.  
F. H. Chamberlain.  
R. W. Danuser.  
R. H. Denniston, Ph. G., B. S.  
F. H. Hatton.  
F. C. Hitchcock, Ph. C., Mich.  
Alex. Krembs, Jr.

E. A. Ross.  
O. A. Soell.  
J. A. Treber.  
W. L. Treber.  
T. G. Windes.  
A. H. Woltersdorf, Ph. G.







**A**BBOTT, CLARA MAY. Born May 20, 1867, in Oxford, Marquette Co. Received preparatory education in the Westfield High School, and served apprenticeship for five years in her father's drug store at Westfield. Entered the University in 1890 and graduated as Ph. G. in 1892. Thesis: "Citronellic acid," which was published in the Proceedings of the Wisconsin Pharmaceutical Association, vol. 13, p. 63.

In charge of the drug department of Geo. M. Melville of Kenosha from March 1892 to March 1893. Since then prescription clerk with Drake Bros. Co., Milwaukee.



C. M. ABBOTT, '92.

ALDEN, FREDERICK WILLIAM.  
Born June 28, 1873, in Waseca,

Minn. Was prepared at the Waseca High School. Entered the University in 1895 and graduated as Ph. G. in 1898. Thesis: "The structure of *Pycnanthemum lanceolatum* L. and the chemical composition of its volatile oil," the chemical part of which was published in the Pharm. Rev., vol. 16, p. 447. He continued his studies for two years assisting Professor Kremers in his work on volatile oils for Com. G. U. S. P. Revision. The results of this work published so far are contained in several papers on "The quantitative estimation of carvone in volatile oils" in the Pharm. Archives, vol. 2, p. 81; and vol. 3, p. 9. Graduated as B. S., in Pharm., in 1900. Thesis: "Carvone-containing oils and their assay." Since July chemist for Pfister and Vogel of Milwaukee.

ALLEN, LOUIS HENRY. Born at Genoa Junction in 1873. Attended the Lake Geneva High School 1888-1890, and the Whitewater Normal School for one year. Was apprenticed to W. C. Goetze of Genoa Junction for seven months. Entered the University in 1893 and graduated as Ph. G. in 1895. Thesis: "Phenols from the tar of *Pinus palustris*." Pharmacist at Genoa Junction.

ANDERSON, JOSEPH ALVIN. Born Feb. 3, 1877 in Argyle. Graduate of local High School. Taught school one year. Entered University

in 1894 and graduated as Ph. G. in 1897. Thesis: "Menthene nitrosochloride," published in Pharm. Archives, vol. 1, p. 107. Continued his work at the University assisting Mr. Fischer in the work of Com. G. U. S. Revision on "The assay of spirit of nitrous ether," Ph. Arch., vol. 1, p. 169; "Amyl nitrite and its assay," *ibidem*, p. 189; also collected part of the bibliographic material on the same subject which was edited by Mr. Richtmann, *ibidem*, vol. 2, pp. 121 and 343. For a year and six months in the prescription department of a wholesale and



J. A. ANDERSON, '97.

retail drug house at Bloomington, Ill. For several months in a retail store at Normal, Ill. Since then analytical chemist for Dr. J. Jungmann, 1020 3rd Ave., New York City.

ANDERSON, OSCAR WM. Born in Milwaukee, March 17, 1872. Prepared at the Ryan High School of Appleton. Was with W. F. Montgomery from March '88 to Oct. 1, '89; and with H. A. Foster from Oct. 1, '89 to Sept. '91; both of Appleton. Entered the University in 1891, spent the summer vacation with Mr. Forster, and graduated as Ph. G. in 1893. Thesis: "Citronelloxime," published in Proc. Wis. Pharm. Assoc., 1893, p. 57. After graduation he worked for three years for A. Bellerue in La Crosse and Blair. Died in Appleton, July 21, 1896.

ANDRAE, JULIUS. Born in 1864. Received preparatory education at Northwestern University at Watertown. From Sept. 1, '80 to Sept. 1, '83 apprentice to and for another year assistant for A. v. Trott of Milwaukee. Entered the University in 1885 and graduated as Ph. G. in 1887. Thesis: "Preparation of catechin." Clerked for several years after graduation. Since a number of years with Julius Andrae & Sons, dealers in electrical supplies and manufacturers of bicycles.

ANDRE, FRANK. Born in 1866. For four and a half years with R. Brown of Berlin. Entered the University in 1885 and graduated as Ph. G. in 1887. Thesis: "Examination of volatile oils." Druggist in Berlin.

ARENT, JOHN H. Born Jan. 28, 1876, in Appleton. Prepared at the Ryan High School. Apprenticed to J. H. Kamps for one year and a half, and to W. F. Montgomery for six months.

Entered the University in 1895 and graduated as Ph. G. in 1897. Thesis: "The structure of *Fraxinus nigra* Marsh." Pharmacist in De Pere.



G. W. ASCOTT, '95.



J. H. ARENT, '97.

ASCOTT, GEORGE WALTER. Born in Sparta, Apr. 21, 1873. Prepared at the Sparta High School. Apprenticed to Palmer and Gross of Sparta from Feb. 1, 1891 to Sept. 15 of the same year. He then entered the University taking his junior course. From April to Sept. of 1892 he

was with Chas. E. Wright of Plateville. He completed the senior course for the Ph. G. in 1893. Thesis: "Benzylidene dipiperidene," published in the Proc. Wis. Pharm. Assoc. for 1893, p. 70. Owing to the experience requirement for graduation then in force he could not graduate with his class. From Aug. 1, 1893 to June 1, 1898 he was with Henry Horn of Marshfield and then took the committee examination, graduating with the class of '95. Proprietor of a drug store in Neillsville.

**B**ABCOCK, ELBERT LEONARD. Born in 1867. Served for his father E. S. Babcock for two years and four months. Entered the University in 1885 and graduated as Ph. G. in 1887. Thesis: "Syrup of liquorice." Worked after graduation in his father's drug store in Milwaukee, where he died July 28, 1888.

BANCROFT, CHARLES FRANCIS. Born Oct. 29, 1861, at Lodi. Prepared at the local high school.



L. A. BAUMAN, '86.

Was with H. V. Bancroft of Blue Mounds for two years; with Geo. Schulz of Antigo for nine months; and with H. B. Marsh of Neenah for six months. Entered the University in 1888 and graduated as Ph. G. in 1890. Thesis: "Composition of potassium tartrate," published in the Pharm. Rundschau, vol. 8, p. 264. After graduation he clerked for J. Albers for six months. Since then proprietor of a drug store in Horicon, Dodge Co.

BARTH, GEO. PETER. Born in Milwaukee, Dec. 29, 1872. Graduated from East Side High School. Entered the University

in 1892. Graduated as B. S., in Pharm., in 1895. Thesis: "On some organic double halides of lead." Entered the University of Pennsylvania as medical student the same year, where he held the position as Assistant Instructor in Pharmacy during the collegiate year 1897-'98. Graduated as M. D. in 1898. Since then physician and surgeon in Milwaukee.

**BAUMAN, LOUIS ALEXANDER.** Born Sept. 16, 1862, in Racine. Prepared at the Racine High School. Apprenticed to Gieseler and Lochner of Racine for three years. Entered the University in 1884. Graduated as Ph. G. in 1886. Thesis: "Abstracts." Since graduation with J. Bauman & Co. of Oshkosh.

**BAUMGARTH, HERMAN ROBERT.** Born in 1868. With J. Kendall from July 13, 1885 to May 20, 1886; and with L. Lotz of Milwaukee from Jan. 1, 1887 to Jan. 1, 1889; H. O. Frank of Milwaukee from May 5, 1890 to Sept. 1, 1890. Entered the University in 1889 and graduated as Ph. G. in 1891. Thesis: "Coal tar." Later he entered the Wisconsin College of Physicians and Surgeons from which he graduated as M. D. in 1898.

At present practicing medicine in Eldora, Boulder Co., Col.

**BELLACK, JULIUS S.** Born in Watertown, March 6, 1870. Graduate of the local High School. Apprenticed to Thos. S. Thompson of Watertown for about two years. Entered the University in 1888, clerked from May 1, '89 to Aug. 1, '90 with Otto J. Hartwig, Chicago, Ill., reentered in the fall of 1890 and graduated as Ph. G. in 1891. Thesis: "Menthone." Proprietor of drug store at 284 Lincoln Ave., Chicago, Ill.



O. BIERBACH, '87.

**BENNETT, JOSEPH TREVARTIN.** Born in Dodgeville, April 16, 1862. Received preparatory education at local High School and served apprenticeship with Geo. Carter of Le Mars, Iowa, from Nov. 15, '82 to Oct. 1, '83. Entered the University in the fall of '83 taking his junior course. From Feb. 15, '84 to Sept. 1, '85 he was with J. H. Clark of Madison. Reentered the University in the fall of '85 taking the senior course. He graduated as Ph. G. in 1886. Thesis: "Examination of the root of *Pastinaca sativa* Lin.," published in the Contributions from the Dept. of Pharm. of the U. of W., No. 2, p. 39. At present druggist in Lancaster.

BIERBACH, OTTO ARNO. Born Oct. 17, 1866, in Milwaukee. Prepared at Madison High School and Northwestern Business College. Apprenticed to Chas. Naffz of Madison for two and a half years. Entered the University in 1885, clerked for F. Heinemann of Appleton from Apr. 15, '86 to Sept. 1, '86. Graduated as Ph. G. in 1887. Thesis: "Analysis of disinfectants," published in the Pharm. Rundschau, vol. 5, p. 152. With H. O. Frank of Milwaukee for three years; with P. J. McDougall & Co. of Spokane, Wash., one year; with Woodward, Clarke & Co., of Portland, Ore., three years; with John Rogers of Astoria, Ore., one and a half year; with Baldwin Pharmacy, San Francisco, Cal., two years; with Hobron Drug Co. of Honolulu, H. I., two and a half years, where he still is.



C. L. BOBB, '98.

BILSTAD, GUNERIUS ELLSWORTH. Born 1873. Prepared in local schools. Was apprenticed to his father from Jan. 1, '91 to Sept. 1, '93. He entered the University in 1893 and graduated as Ph. G. in 1896. Thesis: "On the chemical composition of the oil of *Juniperus sabina*." After graduation he matriculated at the Medical School of Northwestern University and held the position of an assistant in *materia medica*. Graduated as M. D. in 1899 and now practic peace medicine at his former home in Cambridge.

BLISS, WILLIAM PRIDEAUX. Born July 14, 1869, in Mineral Point. Graduated from local high school in 1887. Apprenticed to R. D. Pulford from March 1, '87 to Jan. 6, '88, and to W. H. Prideaux from Jan. 7, '88 to Sept. '89, both of Mineral Point. Entered the University in 1889 and graduated as Ph. G. in 1891. Thesis: "The mines and ores at Mineral Point," published in Proc. Wis. Pharm. Assoc., vol. 12, p. 36. Since graduation clerking in W. H. Prideaux's drug store in Mineral Point.

**BOBB, CLEMENT LUESTHER.**  
 Born Jan. 2, 1874, in Carl Junction, Mo. Prepared at the Northwestern Academy at Evanston, Ill., and the Wisconsin Academy at Madison. Entered the University in 1894 and graduated as B. S., in Pharm., in 1898. Thesis: "*Hedeoma pulegioides*," a botanical study. With Edw. Williams six months, and with Edwin Sumner ten months, both of Madison. Since Aug. 1, 1899, proprietor of a drug store at Oregon, Wis.



A. E. BOSSINGHAM, '96.

**BOEHME, CHARLES ADOLPH.**  
 Born 1864. With E. E. Hutchinson of Sturgeon Bay for one year and in T. H. Spence's branch store in North La Crosse for about two years. He had also been previously with Geo. Wright & Bro. of Milwaukee. Entered the University in 1885 at the age of twenty-one and graduated as Ph. G. in 1887. Thesis: "Constituents of matico." Pharmacist (Boehme's Medical Hall) Stockton, Cal.



M. O. BRAATEN, '94.

**BOSINGHAM, ARTHUR E.**  
 Born June 19, 1876, in Oregon. Graduated from local high school. Entered the University in 1893 and graduated as Ph. G. in 1896. Thesis: "Kavakava," a chemical study published in the Proc. Wis. Pharm. Assoc., vol. 16, p. 53. With Edwin Sumner of Madison for six months and with O. N. Falk of Stoughton for three years.



I. W. BRANDEL, '99.

of Pharmacy. Entered the University with the first pharmacy class in 1883 and graduated as Ph. G. in 1884. Thesis: "Saccharated pepsin." Druggist (Brainerd & Hare) Elgin, Ill.

BRANDEL, IRVIN WALTER. Born Sept. 25, 1877, in Sauk City. Prepared at S. S. Milwaukee and the Madison high schools, graduating at the latter. Entered the University in 1896 and graduated as Ph. G. in 1899. Thesis: "On the chemical composition of the oil of *Monarda fistulosa*," published in Pharm. Archives, vol. 2, p. 77. With A. H. Hollister of Madison three for months. Reentered the University 1899—1900, assisting Prof. Kremers in his work on volatile oils for the U. S. P. Revision Committee. At present, 1900—1901, August Uihlein Fellow in Pharmaceutical Chemistry.

BRAATEN, MARTIN OLAUS. Born in Utica, June 8, 1861. Prepared at Milton College. Was with A. H. Hollister of Madison for three years and with C. A. Spencer of Waupaca for four and a half years. Entered the University in 1892 and graduated as Ph. G. in 1894. Thesis: "Dementholized peppermint oil." Pharmacist at Whitewater.

BRAINERD, LEVERETT E. Born in 1861. Had five years of experience and took the junior course at the Chicago College of



J. J. BRENNAN, '95.

BRENNAN, JOHN JEROME. Born at Cato, March 11, 1871. Entered the University in 1893 on the strength of a teacher's certificate and graduated as Ph. G. in 1895. Thesis: "Non-phenol constituents of the oil from *Monarda fistulosa*," published in the Pharm. Rundschau, vol. 13, p. 207. Clerked at various places and is now proprietor of the Webster Block Pharmacy in Oshkosh.

BRENNECKE, HERMAN ALEXANDER. Born Oct. 11, 1870, in Watertown. Prepared at local high school. Apprenticed to R. H. Brennecke of Watertown from July 1886 to Sept. 1890. Entered the University in 1890 and graduated as Ph. G. in 1892. Thesis: "Mixed halides of lead," published in Proc. Wis. Pharm. Assoc., vol. 13, p. 87. Answer to Query 72 Am. Pharm. Ass., "Is the addition of ethereal oil to compound spirit of ether desirable? In Germany the absence of this oil is demanded on the ground that the action is antagonistic to that of pure constituents of Hoffmann's anodyne." Proc. Am. Pharm. Ass., vol. 40, p. 290. Clerked for his former preceptor, also one-half year for C. S. Wells of Chicago. Student at Rush Medical College, where he graduated as M. D. in 1897. Interne at Augustana Hospital and Cook Co. Hospital, Chicago. Medical Superintendent of the hospital at Aurora, Ill., his present address.

BRUUN, HARALD NICOLAI. Born Aug. 10, 1872 in Chicago, Ill. Took junior course at Chicago College of Pharmacy. Entered the University in 1891 and graduated as Ph. G. in 1893. Thesis: "On the chemical composition of the oil of *Canella alba*," published in the Proc. Wis. Pharm. Assoc., 1893, p. 36. Employed since graduation in his father's drug store, 282 Grand Ave., Chicago, Ill. Has published "Popular scandinavian names of



H. N. BRUUN, '93.

drugs and medicines," a pamphlet in form of a reprint of a series of articles in the Pharm. Review.

BRYANT, JESSE RANDALL. Born Oct. 11, 1867, in Sheboygan Falls. Prepared at local high school. Apprenticed to E. P. Bryant of Sheboygan Falls for three years. Entered the University in 1886 and graduated as Ph. G. in '88. Thesis: "*Robinia pseudacacia*." Engaged in pharmacy up to 1893 when he matriculated in Rush Medical College and graduated as M. D. in 1896. Since then he has practiced medicine in Louisiana and this state. Now in Lyndon, Juneau Co.

AMBIER, JACOB. Born in 1866. Entered the University in 1897 at the age of 21 years and after having had three years of drug store experience. Graduated as Ph. G. in 1889. Thesis: "*Robinia pseudacacia*," published in Pharm. Rundschau, 8, p. 29. Assistant to Professor Power during the collegiate year 1889-'90. Chemist for Pueblo Iron and Coal Co., 1000 E. Abciendo Ave., Pueblo, Col.

CARR, WALTER MICHAEL. Born March 30, 1866, in New London. Prepared at the local graded schools. Apprenticed for six months to Mr. J. Woodworth of Waupaca, also to Mr. A. H. Hollister of Madison. Entered the University in 1886 and graduated as Ph. G. in 1888, receiving the gold medal of the State Association. Thesis: "The alkaloid violine," published in Pharm. Rundschau, vol. 7, p. 11. Since graduation he clerked, was proprietor and traveling salesman. Died Nov. 13, 1899.

CARTER, BENJAMIN FARRAR. Born October 29, 1864, in Lancaster. Received preparatory education at the Platteville Normal School. With J. P. Huntington of Platteville for one year, with F. W. Bryan of Lancaster for one and a half years and in Milwaukee Sanitarium four months. Entered the University in 1884 and graduated as Ph. G. in 1886. Thesis: "Podophyllum leaves," a chemical study published in contributions of the Dept. of Pharm., U. of W., No. 2, p. 35. After graduation, pharmacist for G. C. Waller of St. Cloud, Minn., from 1886 to 1889. During 1889 with H. W. Reitzke of St. Paul, Minn. Since 1890 proprietor of a drug store in St. Cloud, Minn., 504 St. Germain St.

COHN, MAX A. Born in 1870 in Milwaukee. Apprenticed to J. C. Pomeroy of Waverly, Iowa, from Jan. '85 to Feb. '86. With A. A. Broadie of same place from March '86 to June '87, and with C. W. W. Church of Colorado Springs from Aug. '87 to May '88. He entered the University in 1890 and graduated as Ph. G. in 1892. Thesis: "Temperature of decomposition of volatile substances." According to last reports pharmacist in Cincinnati, Ohio.

COLLYER, BERT BEEMAN. Born Dec. 10, 1866, in Clinton, Rock Co. Graduate of local high school. Apprenticed to Covert & Cheever, and Covert & Inman of Clinton for three years. Entered the University in 1886. With D. H. Pollock & Co. of Beloit for 1 year and with Drake Bros. of Milwaukee for three months. Reentered the University in 1889 and graduated as Ph. G. in 1890. Thesis: "Sulphurated potassa" published in the Pharm. Rundschau, vol. 8, p. 262. With C. A. Emerson of Beloit for five years, then with C. A. Smith & Co. of Beloit six months, and now with Edwin Sumner of Madison.

COMER, PETER JAMES. Born Oct. 18, 1862, in Summit. Received preparatory education in Mauston High School. Was apprenticed to C. H. Grote & Co. of Mauston for one year, and to Edwards & Co. of the same place, also for one year. Entered the University in 1888 and graduated as Ph. G. in 1890. Thesis: "Unfermented grape juice," published in the Pharm. Rundschau, vol. 9, p. 34. After graduation he became manager of the store of Edwards & Co., which he purchased July 1, 1895.

CORRELL, WASHINGTON. Born June 26, 1870, in Livingston. Graduated of the Linden High School. Apprenticed to R. H. Pulford of Mineral Point for one and a half years. Entered the University in 1892 and graduated as Ph. G. in 1895. Thesis: "Oil of Pyean-



A. G. CRIDDLE, '99.

"themum lanceolatum" published in the Pharm. Rev., vol. 14, p. 32. After graduation with the Shell Lake Drug Co. of Shell Lake for three and a half years. Now proprietor of drug store in Linden.

CRIDDLE, ARTHUR GEO. Born Oct. 26, 1875, in Stoughton. Received preparatory instruction in local high school. Entered the University in 1897 and graduated as Ph. G. in 1899. Thesis: "Medicated waters," published in the Pharm. Archives, vol. 3, p. 21. Drug clerk in Milton Junction, at present with W. T. Williams at Belleville.

DENNISTON, ROLLIN HENRY. Born March 21, 1874, in New Castle. Received preparatory education at Burlington High School. Was apprenticed to Denniston and Reinardy for two years. Entered the University in 1894 and graduated as Ph. G.

in 1897. Thesis: "The structure of *Fraxinus americana* L.," published in Pharm. Archives, vol. 1, p. 6. Continued his studies after graduation and did special work on Research Committee C. U. S. P. Revision (Prof. H. H. Rusby of New York, Chairman) under the direction of Prof. True. The following reports were made: 1) "Veratrum viride Ait. and *V. album* L., a comparative histological study," published in Pharm. Archives, vol. 1, p. 68; 2) "The comparative structure of the barks of certain American viburnums," published in



R. H. DENNISTON, '97.

Pharm. Archives, vol. 1, p. 137; 3) "Indian and Alexandrian sennas," published in Pharm. Review, vol. 16, p. 105. Graduated as B. S., in Pharm., in 1899. Thesis: "American viburnums." Was elected General University Fellow in Pharmacognosy for 1899—1900. In the fall of 1899 he was elected Secretary of the University Graduate Club. Since 1899 he is curator of the Drug Cabinet and has recently been appointed Assistant in Pharmacognosy. During the past year he published: "Kneipp remedies" in Pharm. Rev., vol. 17, p. 565;

"Ergot from wild rice" in Pharm. Review., vol. 18, p. 118; and "*Euphorbia lathyris*" and "*E. helioscopia*" in Pharm. Rev., vol. 18, p. 159.

DIETZ, HUGO. Born in Mayville, July 2, 1873. Received preparatory education at local high school. Was apprenticed to his brother, Mr. Emil Dietz of Milwaukee for two years and to Mr. J. Martin, also of Milwaukee for one year. Entered the University in 1892 and graduated as Ph. G. in 1894. Thesis: "Terpenes from menthene." Acted as relief clerk for one year. Entered into business for himself in 1895 in Milwaukee, Cor. 17th and National Ave., where he remained until his sickness in February 1896. He died in Mayville, May 22, 1897.



H. DIETZ, '94.



F. G. EHLERT, '99.

present Assistant chemist for the Rochester, Mich., Sugar Factory.

**E**HLERT, FREDERICK GUST. Born in Milwaukee, Feb. 19, 1877. Received preparatory education at East Side High School. Apprenticed to Mr. M. Bartel of Milwaukee for three and a half years, and with John A. Dadd & Son for three months. Entered the University in 1897 and graduated as Ph. G. in 1899. Thesis: "On the reaction of boric acid with polyatomic alcohols." Reentered the University as part holder of the August Uihlein Fellowship for the year 1899—1900. Clerk with M. A. Menges of Madison. At

EIGHMY, ALVA. Born in McFarland, Oct. 6, 1875. Graduated from the Wisconsin Academy at Madison in 1896. Entered the University the fall of the same year and graduated as Ph. G. in 1899. Thesis: "Molecular weight determinations by the boiling point method."

ELLSWORTH, ALBERT JR. Born in Oshkosh, Dec. 16, 1865. Received preparatory education at Escanaba High School, Escanaba, Mich. Apprenticed to Wm. Godley of Escanaba from July 1, '81 to August 1, '83, and clerked for L. J. Kimbal of Norway, Mich., for one year. Entered the University in 1885 and graduated as Ph. G. in 1887. Thesis: "Examination of black pitch." Clerked at Oskosh for six months and at Stevens Point for eight months. Started in business for himself at Escanaba, Jan. 1, 1889, where he still is. Was elected City Treasurer in 1896 and 1897.



A. EIGHMY, '99.

Pharm. Assoc., 1893, p. 75. Member of the firm of Margraff, Emde & Co. of New London, but retired during the past year.

EMMERICH, HERMAN LUDWIG. Born in Milwaukee, Dec. 11, 1869. Received preparatory education at Milwaukee High School. Was apprenticed to Wm. Lueders of Milwaukee for two years. Clerked for Jos. Trompeczynski of Milwaukee for 10 months, for Foster Bros. of Beloit for six months, for A. C. Esther eight months, for J. H. Tesch & Co. for three years, for the Hunter Drug Co. for three years, for the Hotel Pfister Drug Store for three months. Entered

the University in 1892 and graduated as Ph. G. in 1894. Thesis: "The volatile oil from Canada balsam." After graduation prescription clerk for John A. Dadd & Son until recently when he purchased a drug store on Third St., Milwaukee, between Lee and Wright St.

**ERHART, OSCAR THEODORE.** Born in Columbus, April 20, 1870. Graduate of the local high school. Apprenticed to Hofflin Drug Co. of Minneapolis, Minn., from June '87 to Sept. '87 and to A. Grotefend of Minneapolis from Sept. 1, '87 to Sept. 1, '89. Entered the



H. L. EMMERICH, '94.

University in 1889, spent the vacation from April 1, '90 to Sept. 1, with Fred. B. Brown of Oconomowoc, and graduated as Ph. G. in 1891. Thesis: "The hydrocarbon underlying menthol." Clerked after graduation until summer of 1895, since when he has been in business for himself in La Crosse.

**ERDMANN, CHARLES ANDREW.** Born in 1866 in Milwaukee, where he received his preliminary education and served his apprenticeship

with Fred. Esau for two years. He also clerked for Strohmeyer & Co. for one year and five months, before entering the University in 1885. He graduated as Ph. G. in 1897. Thesis: "Polygonum hydropiper." After graduation he again clerked for a time and took up medical studies. Several years later he matriculated as medical student in the University of Minnesota, being appointed assistant to the Professor of Anatomy. Later he was made Assistant Professor and has recently been advanced to a full professorship in that Department.

**F**ERRIS, WM. STEWART. Born Nov. 18, 1874, in Whitewater. Graduated from local high school in 1893. Apprenticed to R. O'Connor & Son of Whitewater for twenty-two months and with Harlow Ott of Madison for two months. Entered the University in 1894 and graduated as B. S., in Pharm., in 1898. Thesis: "*Fraxinus viridis* Michx., with an introduction on the chemical investigation of the genus *Fraxinus*." Held the August Uihlein Fellowship during 1898-'99, and was appointed Chemical Assistant in Pharmacognosy for 1899—1900. Since the close of the college year chemist for the Natural History Survey of the State.



W. S. FERRIS, '98.

years) in Milwaukee. Entered the University in 1884 and graduated as Ph. G. in 1886. Thesis: "Citrate of strychnine," published in Contributions from the Dept. of Pharm., No. 2, p. 49. Since graduation in Milwaukee, and later in New York City.

FOSTER, CHARLES A. Born in 1858. Was a student at the University with two and a half years of drug store experience when the Department of Pharmacy was established in 1883. Entered the

pharmacy course with advanced standing and graduated as Ph. G. in 1884. Thesis: "The medicinal plants of Wisconsin," published in Contributions from the Dept. of Pharm., No. 1, p. 7.

**FREDRICK, HARRY HARPER FESLER.** Born Jan. 9, 1864, in Potter Co., Pennsylvania. Received preparatory education at Augusta (Wis.) High School. Was apprenticed to and staid with M. Victory, later Victory Drug Co. of Augusta for fourteen years. Entered the University in 1885 and graduated as Ph. G. in 1887. Thesis: "Potassium nitrite in commercial potassium hydrate." Later he took up the study of medicine and graduated as M. D. in 1894. Since then he has been practicing medicine in connection with pharmacy in Friendship, Adams Co.

**FREYTAG, ERNEST FREDERICK.**

Born June 3, 1874, in Milwaukee. Received his preparatory education at East Side High School. Was apprenticed to Fred Esau for six months and to Anton Weiss for one and a half years. Entered the University in 1894 and graduated as Ph. G. in 1896. Thesis: "On the estimation of strychnine and brucine in extract of nux vomica." Since graduation drug clerk, of late in charge of laboratory of Drake Bros. of Milwaukee.

**FUNCK, GEO. WM.** Born Jan. 2, 1877, in Milwaukee. Received preparatory education at South Side High School. Entered the University in 1896 and graduated as Ph. G. in 1899. Thesis: "Antipyretic sulphonic acids and sulphonates," published in part in the Pharm. Rev., vol. 17, p. 249. Reentered the University as student in General Science Course. Entered the Rush Medical College at the opening of the collegiate year.

G. W. FUNCK, '99.



**GADSBY, FREDK. HURLBUT.** Born Sept. 4, 1863, in Gilbertsville, Otsego Co., New York. Received preparatory education at Eau Claire High School and was apprenticed to E. H. Playter of Eau Claire for four years. Entered the University in 1883 and



F. H. GADSBY, '85.

*densis* with an introduction concerning the *Labiatae*," the chemical part of which was published in the Pharm. Rev. vol. 16, p. 412. Registered as graduate student, then transferred to General Science Course and took B. S. degree in this course in order to conform with the law concerning countersigning of diplomas by State Superintendent for purpose of teaching. Continued graduate studies in fall of 1899 and received master's degree in science. Thesis: "On the classification of the constituents of volatile oils." Teacher at Mazomanie High School.

GILMAN, WALTER F. Born in Stoughton in 1871. Received preparatory education at local high school. Was apprenticed to Falk Bros. of Stoughton for two years, and with A. F. Sheldrapp of same place for six months. Entered the University in 1891 and graduated as Ph. G.

graduated as Ph. G. in 1885. Thesis: "*Ustilago maydis*." With Huber Bros. of Fond du Lac, one year, with F. Scott of Stillwater, Minn., one year, with St. Croix Drug Co. of Stillwater about four years. At present at Eau Claire as retail and manufacturing pharmacist.

GAGE, FLORENCE META. Born in Madison in 1876. Graduated from local high school. Entered the University in 1894 and graduated as B. S., in Pharm., in 1898. Thesis: "A chemical and botanical study of *Mentha cana-*



F. M. GAGE, '98.

in 1893. Thesis: "The terpenes of spearmint oil," published in Proc. Wis. Pharm. Assoc., 1893, p. 53. At present pharmacist in Rio.

**GOLMGESKY, CHAS. ERDMAN.** Born in 1866. Apprenticed to and clerked for W. F. Montgomery of Appleton from July 12, '80 to July 12, '87. He entered the University in 1887. Graduated as Ph. G. in 1889. Thesis: "Constituents of black pitch." Pharmacist at Stockbridge, previously at Appleton.



W. F. GILMAN, '93.

**GORR, CHAS. WM.** Born in Milwaukee in Sept. 25, 1877. Received preparatory education in E. S. High School. Entered the University in 1896 and graduated as Ph. G. in 1899. Thesis: "Acetanilid, a monograph," published in Pharm. Rev., vol. 17, p. 295. Rematriculated as General Science Student, continuing his thesis work on acetanilid, the continuation of which has been published in part in Pharm. Rev., vol. 18, pp. 305, 402 etc. Student at Rush Medical College.



C. W. GORR, '99.

**GROTE, EMILY LAURA.** Born Dec. 31, 1860, in Germantown, Juneau Co. Received her preparatory education in the common schools. Was apprenticed to H. F. Revill of Litchfield, Minn., for one and a half years with C. H. Grote and J. B. Edwards of Mauston from 1887—1889, when she entered the University. Graduated as

Ph. G. in 1891. Thesis: "On the scale salts of iron," published in Proc. Wis. Pharm. Assoc., 1891, p. 46. Since graduation in charge of her father's drug store and now his partner in business.

**H**ABHEGGER, CARL J. Born in 1872 in Watertown. Received preparatory education in local high school. Apprenticed to Aug. Rau of Watertown for one year, with Northern Hospital at Oshkosh for one year, and Wm. Bodemann of Chicago, one year. Entered the University in 1891 and graduated as Ph. G. in 1893. Thesis: "Pulegone oxime," published in Proc. Wis. Pharm. Assoc.,



W. H. HAMMERSLEY, '86.

published in Proc. Wis. Pharm. Assoc., vol. 13, p. 48. After graduation drug clerk in Milwaukee and now manager of one of the stores of the Hackendahl Drug Co., 480 National Ave.

**HALSEY, ROBERT IRVING.** Born Dec. 23, 1871, in Prairie du Chien. Received preparatory education at local high school and was apprenticed to E. M. Wright & Co. for three and a half years. Entered the University in 1891 and graduated as Ph. G. in 1893. Thesis: "The hydrocarbons of peppermint oil," published in Proc. Wis. Pharm. Assoc., 1893, p. 88. Clerk with O. M. Salisbury of Mazomanie.

**HAMMERSLEY, WILLIAM HY.** Born April 4, 1864, at Lake Geneva. Received preparatory education at local high school and

1893, p. 51. Entered Rush Medical College and graduated in 1897. Interne Cook Co. Hospital 1897-'98; Fellow Materia Medica and Therapeutics R. M. C. 1898-'99; Assistant Chest, Throat and Nose, R. M. C., 1899. Engaged in private practice in Watertown since Nov. 1899.

**HACKENDAHL, OTTO.** Born March 3, 1871 in Milwaukee. Had three years of drug store experience when he entered the University in 1890. Graduated as Ph. G. in 1892. Thesis:

"Resin acid of black pitch,"

Lake Geneva Seminary. Was apprenticed to his father and took junior course at Chicago College of Pharmacy. Entered the University in 1885 and graduated as Ph. G. in 1886. Thesis: "Abstracts." Since graduation with his father, W. H. Hammersley, Sr., Lake Geneva, Walworth Co.

HASWELL, EDWIN LEWIS. Born August 2, 1869, in Windsor, Dane Co. Received his preparatory education at the Mazomanie High School, and was apprenticed to S. V. Lewis of Sun Prairie for two years. Entered the University in 1893 and graduated as Ph. G. in 1895. Thesis: "Virgin dip from *Pinus cubensis*," published in the Pharm. Rev., vol. 3, p. 135. Clerked for F. N. Falk of Stoughton for more than two years. At present druggist (Heynolds & Haswell) in Kimball, Beulé Co., S. Dakota.



E. L. HASWELL, '95.

HANF, ERNEST DAVID. Born Sept. 26, 1872, in Beaver Dam. Received preparatory education at Wayland Academy of Beaver Dam. Was apprenticed to Rau and Lehmann of Watertown and entered the University in 1891, graduating as Ph. G. in 1893. Thesis: "On the mother liquids of nitrosochlorides," published in the Proc. Wis. Pharm. Assoc., 1893, p. 47. At the time of his death, March 26, 1894, he clerked in Ashland.



C. W. HELBING, '94.

HELBING, CHARLES WILLIAM. Born Oct. 1, 1873 in the town of Chester, Dodge Co. Received preparatory education at the



W. E. HENDRICKS, '98.

out during 1889-'90 and graduated 1890 and graduated as Ph. G. in 1891. Thesis: "Toluene-o-cyan-m-sulphonic acid." With Hunter Drug Co. of Denver, Col.

**HENDRICKS, WALLACE EDW.** Born April 25, 1875, in Campbellsport. Received preparatory education at Dixon College. Was apprenticed to Reeves & Son of Fond du Lac. Entered the University in 1895 and graduated as Ph. G. in 1898. Thesis: "Chemical composition of the oil from *Monarda punctata L.*," published in Pharm. Archives, vol. 2, p. 73. With Kamps and Sacksteder of Appleton for one and a half months. Since Nov. 1, 1899, with A. F. Menges of Madison.

**HENNING, ALBERT LOUIS.** Born Dec. 15, 1877, at Iron Ridge. Received preparatory education at Horicon High School and at Wisconsin Academy at Madison. Entered the

Beaver Dam High School, and was apprenticed to P. Beule of Beaver Dam for about three years. Entered the University in 1892 and graduated as Ph. G. in 1894. Thesis: "Menthene nitrosochloride and derivatives." One year with P. Beule, two years with W. H. Barr Drug Co. of Milwaukee and since three years in business for himself at Beaver Dam.

**HELLSTERN, EDWARD.** Born in 1869. Had four years drug store experience when he entered the University in 1888. Dropped as Ph. G. in 1891. Thesis: "To-



A. L. HENNING, '99.

University in 1896 and graduated as Ph. G. in 1899. Thesis: "The molecular condition of sugar and saccharaks in solution." Rematriculated as general science student in fall of 1899. Home address, Iron Ridge.

HILFERT, HENRY OSCAR. Born Aug. 9, 1871, at Appleton. Graduated from Ryan High School of Appleton, class 1889. Apprenticed to J. H. Cook & Son, six months, to Harves and Little about two years. Entered the University in 1891 and graduated as Ph. G. in 1893. Thesis: *Fraxinus viridis Michx.*," published in Proc. Wis. Pharm. Assoc., 1893, p. 63. Contributed a paper on Examination of Tincture of Opium, U. S. P., to the 1894 Proceedings (p. 50) of the State Assoc. Clerked in various positions, at present in Spiegel's drug store. Home address, 1609 Brown St., Milwaukee.

HINDLEY, ROBERT WILLIAM. Born Dec. 15, 1876, in Racine. Received preparatory education at Phila. Manual Training High School. Entered the University in 1895 and graduated as Ph. G. in 1898. Thesis: "On the chemistry of "*Fraxinus americana L.*" Chemist and Ass't Superintendent to Horlick's Food Co. of Racine. Home address, 1328 Carlisle Ave.

HOLLEN, HENRY BRONSON. Born Nov. 4, 1879 in Eau Claire. Received preparatory education at Eau Claire High School and graduated from St. John's Military Academy. Entered the University in 1897 and graduated as Ph. G. in 1899. Thesis: "The structure of the root of kava-kava," published in Pharm. Archives, vol. 3, p. 121. Student at Chicago Medical College. Home address, Eau Claire.

HORN, CHARLES GOTTFRIED. Born in 1865. Had two and a half years drug store experience when he entered the University in 1886. Graduated as Ph. G. in 1888. Thesis: "Emulsions." Pharmacist in Oshkosh.



WM. J. HUCK, '85.

HUBENTHAL, CHARLES GILFRED Born Oct. 31, 1873 in Germantown. Received preparatory education at Carroll College. Had several years of drug store experience when he entered the University in 1897, graduating as Ph. G. in 1899. Thesis: "Inversion of cane sugar in some of the elixirs of the National Formulary." Student at Milwaukee Medical College since graduation.

HUCK, WILLIAM JULIUS. Born April 12, 1862, in Milwaukee. Received preparatory education in parochial and public schools of Milwaukee. Was apprenticed to Widule & Conrath for three years, and had eight years of drug store experience when he entered the University with the first pharmacy class in 1883, graduating as Ph. G. in 1885. Thesis: "Crystalline form and solubility of berberine salts," published in Contributions from the Dept. of Pharm., No. 1, p. 48, also in Drugs and Medicines of North America. With C. E. Wright of Platteville, one year; also with O. A. Thiele, F. Esau, both of Milwaukee. Died March 19, 1887, in Milwaukee.



C. G. HUNKEL, '94

HUNKEL, CARL GEORGE. Born June 27, 1871, in Milwaukee and received preparatory education at East Side High School. Apprenticed to Louis Meyer of Milwaukee for thirteen months, with R. H. Wagner, one year, with A. Lueders, eight months, with Schorse & Co.,

seven months, with H. G. Ruenzel, seven months, all of Milwaukee. Entered the University in 1892 and graduated as Ph. G. in 1894. Thesis: "Abies Alba Miller," published in the Am. Journ. Pharm., vol. 67, p. 9. Rematriculated as holder of the Druggist's Fellowship, 1894-'95. Graduated as B. S., in Pharm., in 1897. Thesis: "The toxic action of phenols," published in Bot. Centralblatt, also in Proc. A. Ph. A., vol. 45, p. 252. Other articles published are the following: "Oil from *Tsuga canaden sis*" in the Pharm. Review, vol. 14, p. 34; "Contributions to the chemistry of

rhubarb" in *Pharm. Archives*, vol. 3, p. 201. August Uihlein Fellow in Pharmaceutical Chemistry 1897-'98; holder of Frederick Stearns Fellowship at the University of Michigan 1898-'99. Since then Assistant Professor of Applied Pharmaceutical Chemistry at Northwestern University, 2421 Dearborn St., Chicago, Ill.

**I**VERSON, EDWARD ALVIN. Born Oct. 20, 1871, in Chicago, Ill. Received preparatory education in South Division High School and in Conant Preparatory School of Chicago. Entered the University in 1893 and graduated as B. S., in Pharm., in 1896. Thesis: "On the chemistry of the addition products of  $\text{NOCl}$ . $\text{N}_2\text{O}_3$  and  $\text{N}_2\text{O}_4$  to some unsaturated hydrocarbons." Bookkeeper with E. Iverson & Sons, 159 La Salle St., Chicago.

**J**AMES, MARTHA MORRIS. Born in Oshkosh in 1870 and received preparatory education at local high school. Apprenticed to O. R. Mierswa of Oshkosh for nine months and to H. J. Wegener for one and a half years. Entered the University in 1893 and graduated as Ph. G. in 1896. Thesis: "Menthene nitrosochloride," published in *Pharm. Archives*, vol. 1, p. 107. Rematriculated and held U. S. P. Revision Fellowship during 1897-'98. Graduated as B. S., in Pharm., in 1898. Thesis: "Hydrocyanic acid, its distribution in the vegetable kingdom and its assay in volatile oils." "On the volumetric destination of methyl salicylate," *Ph. Rev.*, vol. 16, p. 130. "Criticism of a proposed method for the assay of senega," *Ph. Rev.*, vol. 16, p. 45. "On the occurrence of methyl salicylate." Published in the *Ph. Rev.*, vol. 16, p. 100. Other papers published are: "That a woman makes as good a pharmacist as a man provided they have equal advantages." *Proc. Wis. Ph. Ass.*, 1895, p. 32. "The menthol group." *Ph. Arch.*, 1, p. 107. After graduation prescription clerk for H. J. Wegener of Oshkosh. Since Sept. 1900 proprietor of the Norway Pharmacy, Norway, Mich.

M. M. JAMES, '94.



**JAMES, CHARLOTTE FRANCES.** Born in Oskkosh Aug. 21, 1875, and received preparatory education at State Normal School at Oshkosh. Was apprenticed to O. R. Mierswa for one year and to H. J. Wegener for six months. Entered the University in 1895 and graduated as Ph. G. in 1898. Thesis: "Nitroso addition products of caryophyllene," published in Pharm. Archives, vol. 1, p. 209. Since graduation prescription clerk for Mrs. Woolhiser at South Wayne, assistant in the Chemical Laboratory at the Oshkosh Normal School. Now at Cumberland.



C. F. JAMES, '98.

**JANECK, LOUIS OSCAR.** Born in 1868. Had two years of drug store experience when he entered the University in 1886, graduating as Ph. G. in 1888. Thesis: "Analysis of washing powders," published in Proc. Wis. Ph. Ass., 9, p. 50. Proprietor of drug store in North Yakima, Wash.

**JONES-LORCH, LAURA MIRIAM.** Born Sept. 10, 1874, in Sun Prairie. Graduated from local high school in 1892. Entered the University in 1892 and graduated as Ph. G. in 1895. Thesis: "Contribution to the anatomy of *Rhus toxicodendron*." Prescription clerk at Missouri Medical College, St. Louis, Mo., for Dr. C. F. Harrington and also for A. W. Krehl, both of Madison. Married June 22, 1898, and engaged in retail pharmacy with her husband, Mr. Geo. Lorch, in Hixton from Sept. 1, 1898 to Sept. 1, 1899, since then in Independence.

**KESTEN, GEORGE HENRY.** Born Aug. 6, 1863, in Leroy, Dodge Co. Received preparatory education at Mayville High School and was apprenticed to F. W. Hartwig from 1883 to 1886. Entered the University in 1886 and graduated as Ph. G. in 1888. Thesis: "Analysis of nutmeg." With L. T. Menkey of Hudson from 1888-'89, with Huber Bros. of Fond du Lac from 1889-'98, now proprietor of drug store in Milwaukee, 502 State St.

**KIMBALL, MYRA WESTON.** Born 1875 in Green Bay, where she received her preparatory education at the E. S. High School. Entered the University in 1896 and graduated as Ph. G. in 1899. Thesis: "On the toxic action of organic amines." Clerking in Green Bay.

**KOSKE, EDWARD CHARLES.** Born Jan. 25, 1875, in Fond du Lac, where he received his preparatory education at the high school, and served his apprenticeship with the Huber Bros. Entered the University in 1896 and graduated as Ph. G. in 1898. Thesis: "Decomposition of iodoform by light," published in Pharm. Archives, vol. 1, p. 194. Since graduation with the former employers. Met with death in the railroad accident near Green Bay in July of the present year.



G. H. KESTEN, '88.



M. W. KIMBALL, '99.

**KRADWELL, GUSTAVE V.** Born in 1867 in Boscobel. Entered the University in 1889, having been with Sanyon and Favor from Aug. 9, 1886, up to the time he entered the University. Graduated as Ph. G. in 1891. Thesis: "*Terbinthina canadensis*," published in Proc. Wis. Pharm. Assoc., 12, p. 37. Since graduation with the Robinson Drug Co. of Racine, of which he became a member.

**KREMERS, EDWARD.** Born Feb. 23, 1865 in Milwaukee. Received preparatory education in Mission House College, Frank-



E. C. KOSKE, '98.

'87. During the year he wrote several papers: 1) "Manufacture of spirit vinegar," published in the Pharm. Rundschau, vol. 5, p. 185; 2) "Investigation of some recently proposed tests for sugar," Western Druggist, 9, p. 72; 3) "Analysis of the volatile oil of *Hedeoma pulegioides*"; and 4) "Examination of the oil of *Andropogon nardus*." The last two papers were contributed to the Cincinnati meeting of the A. Ph. A., (Proc., vol. 35, pp. 546 and 562), which association he joined at that time, and received the Ebert prize. In the fall of 1887 he again matriculated at the University in the General Science Course and graduated as B. S. in 1888. In this year he wrote a paper "Remarks on the analysis of the volatile oil of *Hedeoma pulegioides*," published in the Pharm. Rundschau, vol. 6, p. 103.

A part of the summer vacation was spent in the office of Dr. N. Senn of Milwaukee, but medicine did not attract him and in the fall of that

lin, Sheboygan Co. Apprenticed to L. Lotz of Milwaukee from 1882-'84. Attended junior course in Philadelphia College of Pharmacy 1884-'85. Clerked for Strohmeyer & Co. of Milwaukee during spring and summer of 1885. Entered senior pharmacy class of the University in 1885 and graduated as Ph. G. in 1886. Thesis: "*Fraxinus americana*," published in the Contributions of the Dept. of Pharm., No. 2, p. 19. Continued work at the University and acted as Professor Power's assistant during the collegiate year 1886-



E. KREMERS, '86.

year he matriculated at the University of Bonn, Germany. The following year he went with Professor Wallach to Goettingen and took the degree of Ph. D. at that University. Dissertation: "Isomerieverhältnisse innerhalb der Terpenreihe," published as pamphlet and in part in Liebig's Annalen.

In the fall of 1890, at the request of Professor Power he accepted a position as instructor in pharmacy at the University, and when Dr. Power left in spring of 1892, he was appointed his successor. Since 1892 Professor of Pharmaceutical Chemistry and since 1899 also Director of the School of Pharmacy.

Many of the theses worked under his direction are published under the names of the respective students in the Proc. Wis. Pharm. Assoc., in the Pharmaceutische Rundschau, now Pharm. Review and elsewhere. Since 1896 he is editor of this journal which, thereby, became closely affiliated with the University. In 1898 the larger technical papers were taken out of the Review and are now published in a supplementary journal, the Pharm. Archives, of which he is also editor. Since 1896 he has been on the Research Committee *G* of the U. S. P. Revision Committee conducting the work on volatile oils. At the Eight Convention for the Revision of the U. S. Pharmacopæia, held in Washington in May of this year, he was elected a member of the Revision Committee and has since been appointed Chairman of the Subcommittee on Volatile Oils. Recently he has issued an English translation of Gildemeister and Hoffmann's work on Volatile Oils.

A member of the State Pharm. Assoc. since 1887, he has repeatedly represented this assoc. at the meetings of the Am. Pharm. Assoc., and has worked on several committees, especially as chairman of the Com. on Natl. Legislation and of the Historical Committee appointed in 1898. In the national assoc. he was elected chairman of the Scientific Section and presided over the sessions of this section at the Baltimore meeting in 1898.

In addition to numerous editorials, book reviews etc. he has contributed the following articles to pharmaceutical and chemical literature since 1890:

1891. Terpene und Terpenderivative, ein Beitrag zur Geschichte der ätherischen Oele. I. Die Limonene Gruppe. Pharm. Rundschau, pp. 55, 110, 159, 217, 237.

The limonene group of terpenes. Transactions Wis. Acad. Sc. Arts & Letters, vol. viii, p. 312.

- The volatile oil of *Hedeoma pulegioides* Persoon. Pharm. Rundschau, 9, p. 130.
1892. On citronellone, an unsaturated fatty aldehyde. Am. Chem. Journ., 14, p. 203.  
 Menthene (with F. A. Sieker). Am. Chem. Journ., 14, p. 291.  
 Notes on pharmaceutical education. Proc. Am. Ph. A., 40, p. 309.  
 Notes on queries. Proc. A. Ph. A., 40, p. 288.  
 The menthol group. Proc. A. Ph. A., 40, p. 273.  
 Terpene und Terpenderivate, cont. Pharm. Rundsch., 10, pp. 10, 31, 60.  
 Notes on pharmaceutical education: The study of Materia Medica. Pharm. Rundsch., 10, p. 187; and Proc. A. Ph. A., 40, p. 309.  
 Notes on some iron preparations. Pharm. Rundschau, 10, p. 231.
1893. On abietic acid (with J. L. Mead). Proc. A. Ph. A., 41, p. 198.  
 The menthol group II (with L. C. Urban). Proc. A. Ph. A., 41, p. 185.  
 Notes on the iodid of sulfur. Pharm. Rundschau, 11, p. 57.  
 Zeitgemässse Betrachtungen unserer gegenwärtigen pharmaceutischen Zustände. Ibidem, p. 75.  
 Dulcitol. Ibidem, p. 158.  
 Weltausstellungs Berichte: Mineralische und chemische Producte, ibidem, p. 165; Chemische Producte und Präparate, pp. 191 und 217; Geräthschaften aus Aluminium, p. 265.
1894. The apprenticeship system. Proc. A. Ph. A., 42, p. 239.  
 The menthol group III: Hydrocymenes and their derivatives, (with L. C. Urban). Proc. A. Ph. A., 42, p. 251.  
 The menthol group, preliminary report (with L. C. Urban). Am. Chem. Journ., 16, p. 395.  
 Ketones from pinene derivatives (with L. C. Urban). Am. Chem. Journ., 16, p. 404.  
 A plea for pharmaceutical fellowships. Pharm. Rundschau, 12, p. 54.  
 Notes on pharmaceutical education: II. The apprenticeship system. Ibidem, p. 229.  
 A. P. A.-ism. Ibidem, p. 287.
1895. Limonene and its derivatives (with J. L. Mead). Am. Chem. Journ., 17, p. 692.  
 From pinene to carvacrol (with J. L. Mead). Am. Chem. Journ., 17, p. 607.  
 On the chemical composition of the volatile oil of *Monarda fistulosa* (with J. L. Mead and J. J. Brennan). Proc. A. Ph. A., 43, p. 256; also Pharm. Rundschau, 13, p. 207.  
 Position of the American Pharmaceutical Association toward pharmaceutical education. Proc. A. Ph. A., 43, p. 447; also Pharm. Rundschau, 13, p. 204.  
 On the classification of carbon compounds. Trans. Wis. Acad. Sc. Arts and Letters, vol. 10, p. 310.  
 Practical experience for pharmacists. Pharm. Rundschau, 13, p. 133.
1896. The menthol group IV (with W. O. Richtmann). Proc. A. Ph. A., 40, p. 200.

- On the chemical composition of the oil of *Monarda punctata* (with W. R. Schumann). Proc. A. Ph. A., 44, p. 238; also Pharm. Rev., 14, p. 223.
- On the chemical composition of the oil of *M. fistulosa* (with E. J. Melzner). Proc. A. Ph. A., 44, p. 242; also Pharm. Rev., 14, p. 198.
- Menthene nitrosochloride and some of its derivatives (with W. O. Richtmann). Am. Chem. Journ., 18, p. 762.
- New laboratory apparatus. Pharm. Review, 14, p. 15.
- The quantitative estimation of carvone in volatile oils I (with O. Schreiner). Ibidem, p. 76.
- Estimation of hydrocyanic acid in bitter almond oil (with O. Schreiner). Ibidem, p. 196.
- Quantitative estimation of phenols in volatile oils: Thymol and carvacrol (with O. Schreiner). Ibidem, 221.
- Application of the carboxime method for the quantitative estimation of carvone to adulterated spearmint oil (with O. Schreiner). Ibidem, p. 244.
1897. Rectification of turpentine oil. Pharm. Review, 15, p. 7.  
A prescription file and check blank. Ibidem, p. 196.  
Volatile oils and their assay. Ibidem, p. 196.  
Early phases in the development of pharmaceutical legislation in Wisconsin. Ibidem, pp. 201, 223, 240.
1898. On the application of recent discoveries pertaining to the chemical composition of volatile oils to the study of pharmacognosy and phyto-chemistry. Address as Chairman of the Scientific Section of the Am. Pharm. Assoc. Proc. A. Ph. A., 46, p. 214.
- Pharmaceutical reorganization on the basis of the congressional district. Proc. A. Ph. A., 46, p. 552; also Bulletin of Pharmacy, 12, p. 485.
- Decomposition of iodoform by light (with E. Koske). Proc. A. Ph. A., 46, p. 380; also Pharm. Archives, 1, p. 194.
- Criticism of a proposed method for the assay of senega (with M. M. James). Pharm. Review, 16, p. 45.
- Early phases etc., cont. Ibidem, pp. 56, 136, 183, 223.
- On the occurrence of methyl salicylate (with M. M. James). Ibidem, p. 100.
- On the volumetric estimation of methyl salicylate (with M. M. James). Ibidem, p. 130.
- Benzinum, U. S. P. Ibidem, p. 221.
- Notes on two oils containing pulegone (with F. M. Gage and F. W. Alden). Ibidem, p. 412.
- Molecular dissociation of nitroso compounds. Pharm. Archives, 1, p. 102.
- The menthol group V (with W. O. Richtmann, M. James and J. Anderson). Ibidem, p. 107.

- Caryophyllene derivatives (with O. Schreiner and C. F. James). *Ibidem*, p. 209.
1899. Nitroso derivatives of caryophyllene and cadinene and their bearing on the characterization of the sesquiterpenes (with O. Schreiner). *Proc. A. Ph. A.*, 47, p. 158; also *Pharm. Archives*, 2, p. 273. This paper received the Ebert Prize from the Am. Pharm. Assoc. The letter A: Its meaning in pharmaceutical literature. *Pharm. Review*, 17, pp. 112 and 349.
- Some coniferous volatile oils. *Ibidem*, p. 506.
- Arrangement and fitting of drug stores. *Ibidem*, pp. 509, 560.
- Christ as apothecary. *Ibidem*, p. 388.
- On the chemical composition of monarda oils (with W. E. Hendricks and others). *Pharm. Archives*, 2, p. 73.
- The quantitative estimation of carvone in volatile oil (with F. W. Alden and S. Nolte). *Ibidem*, p. 81.
1900. Progress in the study of the chemistry of volatile oils. Contributed to "the century's progress" in the *Am. Dr. & Pharm. Rec.*, 36, p. 171.
- The volatile oils. By E. Gildemeister and Fr. Hoffmann. Authorized translation by Edward Kremers. One vol., pp. 732, with four maps and numerous illustrations.
- Arrangement and fitting of drug stores, cont. *Pharm. Rev.*, 18, pp. 70, 124.
- The oils of the pharmacy of the Hospital of St. Nicolas of Metz in the year 1509. *Ibidem*, p. 72.
- Pharmaceutical revision of galenicals and solvents. *Ibidem*, p. 109.
- Notes on coniferous oils II. *Ibidem*, p. 165.
- The quantitative estimation of carvone in volatile oils IV (with F. W. Alden and F. G. Ehlert). *Pharm. Archives*, 3, p. 9.

KRESSIN, LOUIS HENRY. Born in September 1870, at Milwaukee. Received his early education in the public school of that place, and later was apprenticed to Max Bartel, from May '86 to May '88; A. von Trott, May '88 to Aug. '89; H. Kienth, Aug. '89 to Sept '90. Entered the University in 1890 and graduated as Ph. G. in 1892. Thesis: "Notes on Pinene," published in the *Proc. Wis. Pharm. Assoc.*, vol. 13, p. 66. Clerked for C. T. Binger of Milwaukee for two years and then started in business for himself at 432 Chestnut St., Milwaukee.

KROGH, CLARENCE ALFRED. Born Jan. 7, 1876, at Kroghville. Received his preparatory education at the Black Earth High School. He entered the university in 1894 in the General Science course, but changed the next year to the pharmacy course and graduated in 1898 as Ph. G. Thesis: "The action of hydroxy acids on borates."

Since graduation he has been studying medicine at Rush Medical College in Chicago. Address, 433 South Paulina St.

KROPF, OSCAR AUG. Born in Madison 1864. Was apprenticed from Sept. '81 to March '85 to C. A. Naffz of Madison. Entered the university in the fall of 1883 and graduated in 1885 as Ph. G. Thesis: "Native wines and brandies," published in contribution from the Dept. of Pharm. U. W., No. 1, p. 32. Since graduation he has clerked in several Milwaukee pharmacies, and at present is conducting a pharmacy of his own in the Pabst Building, 479 East Water St., Milwaukee Wis.



L. H. KRESSIN, '92.

ADWIG, EDWIN ROBERT. Born in Milwaukee Feb. 15, 1875. Received his preparatory education in the common and high schools of Milwaukee, graduating from the East Side High School in 1893. He entered the university in the fall of that year and graduated in 1896 as B. S. in Pharm. Thesis: "The carvone group." He has been employed in several capacities by the Pfister & Vogel Leather Co., as Assistant and Acting Chemist at Milwaukee, 1896 to 1898, and Assistant Agent and Superintendent at Cheboygan, Mich., 1898-1890. He is now employed as Tanning Chemist and Tannery Manager at Cheboygan.



C. A. KROGH, '98.

LASCHE, ALFRED JUL. MORITZ. Born in Milwaukee in 1867. He

received his preliminary education in the common schools of Milwaukee, and later was apprenticed to Amandus Luethe, from June '85 to July '86; to Herman Valet, from July '86 to February '87; to Abe Brown, from February '87 to April '87, all of Milwaukee; to Gieseler & Lochner of Racine, from April '87 to August '87. He entered the University in 1887, and during the vacation of '88-'89 he worked with J. P. Rheinfrank, of Detroit, Mich. He graduated in 1889 as Ph. G. Thesis: "Preparation of compressed yeast," published in Pharm. Rundschau, vol. 8, p. 13. He is at present connected with the Milwaukee Brewing Academy, 130 Grand Avenue, Milwaukee Wis., as chemist.



E. R. LADWIG, '96.

He engaged in the retail pharmacy business at Whitewater until 1897, when he studied medicine at the Milwaukee Medical College, Milwaukee, Wis., and graduated as M. D. in 1900. He is now practising in Whitewater.

**LEVY, SIGMUND.** Born in Milwaukee, January 1868. Apprenticed from August 1884 to August 1887 to Francis Fox of Milwaukee. He entered the university in the fall of that year and received the degree of Ph. G. in 1889. Thesis: "Granular effervescent salts." For some time past he has been in the employ of the U. S. Government as clerk in Chicago, Ill., at 827 North Clark Street.

**LELAND, ABRAM MILLS.** Born July 21, 1865, in Whitewater. Received his preparatory education in the public school and State Normal School at Whitewater. He was employed with H. Warne, M. D., from Sept. '82 to Sept. '83; and Fred M. O'Connor, from June '84 to Sept. '86, both of Whitewater. He entered the university in 1886 and graduated as Ph. G. in 1888. Thesis: "Saccharated Casein."

**M**ADAJESKI, ERNST HENRY. Born Oct. 1, 1869, in Appleton. Received preparatory education at the Ryan High School of his native city. From April 19, 1886 to April 16, 1888, he was apprenticed to W. F. Montgomery and from April 14, of that year to Feb. 14, of 1889, he clerked for Hawes & Little, both Appleton firms. He was also with the Jno. P. Lee Drug House of Chicago. He entered the University in 1889 and graduated as Ph. G. in 1891. Thesis: "Toluene-p-cyan-o-sulphuric acid." For five years he was manager of Thomas & McCadies pharmacy at Ironwood, Mich. During 1896-'97 he was medical student at the University of Michigan. During the summer of 1898 he was in charge of the pharmacy of J. H. Thomas at Rock Island, Ill. He completed his medical studies at the college of Physicians and Surgeons of Chicago, receiving the degree of M. D. April 19, 1899. He is physician and surgeon in the staff of the Gogebic Hospital, Bessemer, Mich.

**MAYER, EDW. ANTON.** Born in 1873, he entered the University in 1892, having graduated from the Nicollett Grammar School and had three years of drug store experience. He graduated as Ph.

G. in 1894. Thesis: "Limonene," published in Am. Chem. Journ., vol. 17, p. 692. He has been employed by F. G. Passin & Co. of South Kaukauna as prescription clerk, and is at present in the employ of Kamp & Sachsteder of Kaukauna.

**McMILLEN, MANFORD WESTON.** Born Aug. 18, 1863, in the Town of Farmington, Jefferson Co., he received his early training in the town school at Johnsons Creek. He was with Wedge and Spicer of Albert Lea, Minn., for two years and with E. R. Godding of Eau Claire for one year. He entered the University in 1883, graduating as Ph. G. in 1885. Thesis: "Elixir of bismuth and hydrastine," published in Contributions from the Dept. of Pharm., No. 1, p. 42.



M. W. McMILLEN, '85.

After graduation he was clerk for three and a half years, manufacturer of a patent medicine for a year and a half, proprietor of a drug store in Milwaukee for six years, life insurance agent for three years, since a year past, partner in the Broadway Palace Storage Co., 376 Broadway, Milwaukee.

**MEAD, JOHN LOCKWOOD.** Born July 1, 1866 at Elkhorn. He attended the common and high school at Janesville, and also Lawrence Academy and University at Appleton, receiving the degree of A. B. and B. S. at the latter in 1888. He entered the University in 1888, and after taking his first year remained away to obtain his drug store experience which was at that time required for graduation. He was with Starkweather & Co. of Kenosha, from Dec. 1888 to Aug. 1890, when he reentered the University and took his second year. Lawrence University conferred the degrees of A. M. and M. S. in June 1891. He received his degree of Ph. G. in 1892, after having completed his two years of drug store work, with Starkweather & Co., from April '91 to June '92. Thesis: "Resin acids from black pitch," published in the Proc. Wis. Pharm. Assoc., vol. 12, p. 43. He pursued post graduate work in the department and received the degree of M. S. in 1893. Thesis: "On abietic acid," published in the Proc. Am. Pharm. Assoc., vol. 41, p. 198. He also published an article on "From pinene to carvacrol," in the Am. Chem. Journ., vol. 17, p. 607. He held the University Fellowship in Pharmacy during the collegiate year of 1893-'94. During the summer he did post graduate work at the University of Chicago, and the next year 1894-'95, he was appointed Honorary Fellow and Assistant in Pharmaceutical Technique, and during 1895-'96 he was given the State Druggist Fellowship. Since 1896 he has been engaged in retail pharmacy at 636 Pacific St., Appleton, Wis., and has recently changed to Antigo.

**MEISSNER, FRITZ WILLIAM.** Born October 1, 1870 in Milwaukee. He attended the German English Academy and Milwaukee High School, and then was apprenticed to Otto A. Thiele, from Jan. 1889 to Aug. 1891, and John A. Dadd & Son, also of Milwaukee, from June 20, 1892 to Aug. 20, 1892. He entered the University in 1891 and received the degree of Ph. G. in June 1893. Thesis: "Oil of *Erigeron canadense L.*," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 65. He engaged in the retail drug business in Milwaukee

and then went into general drug wholesale and manufacturing, under the firm name of Meissner, Bergwall & Co., 117 Buffalo St., Milwaukee, of which firm he is treasurer.

**MELZNER, EDWARD JOHN.** Born at Fort Atkinson, March 12, 1875. He received his preparatory education in the Fort Atkinson High School, graduating with the class of '93, and was then apprenticed to Asa Foote in his native town until he entered the University in 1894. He graduated in 1896 with the degree of Ph. G. Thesis: "On the chemical composition of the oil of *Monarda fistulosa*," published in the Pharm. Review, vol. 14, p. 221. He was in the employ of H. Jacobson at Hurley, for one and a half years; H. J. Dexheimer, Fort Atkinson, one year; Frank Eagan, Muscoda, six months. Since Aug. 1899 he has been

in business for himself at 109 Main St., Watertown.



A. F. MENGES, '86.

**MENGES, ADOLPH FREDERICK.** Born Nov. 1, 1863 in Madison. He received his education in the local graded and high schools, and then was apprenticed from Feb. 1877 to Sept. 1884 to Dunning & Sumner of Madison. He entered the University in 1884, and graduated in 1886, receiving the degree of Ph. G. During this time he continued in the employ of Dunning & Sumner. Thesis: "Spruce gum," published in the Contributions of the Dept. of Pharm., U. W., 2, p. 30. He was employed by his former



A. J. MELZNER, '96.

preceptors, until he purchased his present store from C. H. Avery September 1, 1891. He was appointed to the State Board of Pharmacy in 1895, by Governor Upham, and was reappointed by Governor Scofield in 1900. He was president of the board in 1899. A branch store was opened by him in 1899 at the corner of University Avenue and Park St.

**METZ, ALEXANDER.** Born Dec. 2, 1875, in Schondra, Bavaria, Germany. He attended both the graded and high schools of Madison and then served a two years' apprenticeship with Edwin Sumner of Madison, Sept. 1893 to Sept. 1895. He entered the University in 1895 and graduated in 1897 with the degree of Ph. G. Thesis:



H. C. MICKLESEN, '89.

"Syrup of ferrous iodide." Since completing the university course he has been employed as prescription clerk with A. Mahlendorf & Co. of Sheboygan; C. A. Naffz, Madison; Frank Watson, Chippewa Falls, and is now with A. H. Hollister of Madison.

**MEYER, LOUIS CHARLES.** Born in October 1867, at Sheboygan. He had five and one half years of experience, three years of which from June 1882 to June 1885 had been with L. Bock & Son of his native town, in addition to a common school education, when he entered the University in 1887.

He graduated in 1889 with the degree of Ph. G. Thesis: "Oleates." He is at present in the employ of A. Mahlendorf & Co. of Sheboygan, as manager of their retail pharmacy at 627 North 8th Street.

**MICKLESEN, HENRY CHRISTIAN.** Born in Norway, March 7, 1867. He received his preliminary education at the Winneconnie High School, and then was apprenticed to A. H. Guernsey at Amherst from Aug. 1882 to Aug. 1886. He entered the University in 1886, and after completing his first year, served with H. N. Rogers at Whitehall, returning to the University in 1888 and receiving the

degree of Ph. G. in 1889. Thesis: "Laxative raisins." He clerked for A. Bellerue at La Crosse for two years, then in 1891, engaged in business for himself at Alma. In 1897 he disposed of his store, and since then has been acting as prescription clerk for E. E. Gatchell at Hudson.

**MIEDING, ALBERT EDWARD.** Born in Milwaukee, in 1865. His early pharmaceutical training was received from Fred Thoemheld, from February 1882 to June 1883; and Krems & Co., from March 1883 to December 1883, and from his father Rud. Mieding, from December 1883 to September 1885, all of Milwaukee. He entered the University in 1885, and spent the summer vacation with his father. He graduated in 1887 with the degree of Ph. G. Thesis: "*Hamamelis virginica*." He is engaged in the retail pharmacy business in Milwaukee, at 1701 State St., and has a branch store at 27th and State St. In 1894 he was made adjunct professor of chemistry and in 1898 full professor of chemistry at the Milwaukee Medical College at Milwaukee. During the past year he was also made professor of pharmacy in the Milwaukee College of Pharmacy, established in connection with the above college.



R. H. MIEDING, '92.

**MIEDING, RUDOLPH HERMAN.** Born March 12, 1871 at Bay View, Milwaukee Co. His preliminary education was obtained in the parochial and public schools of Milwaukee, where he also served as apprentice to Rud. Mieding & Son, from January 1887 to September 1890. He entered the university in 1890 and graduated in 1892 as Ph. G. Thesis: "Examination of the inner bark of *Fraxinus Americana*," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 80. After graduation he soon engaged in business for himself at Stevens Point until Aug. 1899. Since Sept. 17, 1899, he has been with B. Broemerich of San Francisco, California, as prescription clerk. Address, 2501 California Street.

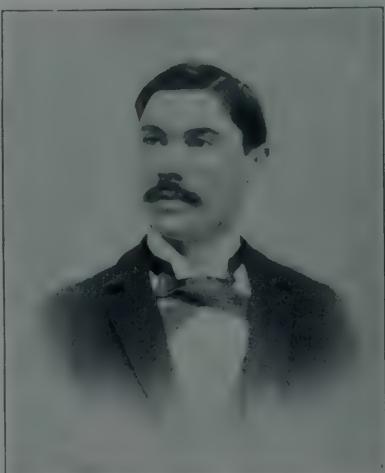


A. H. MILES, '95.

**MILES, HARRY ALVAH.** Born at Elgin, Minn., Dec. 17, 1869. Received preliminary education at the West Salem, Wis., high school. Was apprenticed with Alex Johnson of West Salem from Aug. 1891 to Jan. 1892, and Fred Newton of Sparta, from Jan. 1892 to Sept. 1893. He entered the university in 1893 and graduated as Ph. G. in 1895. Thesis: "On the action of Bertram's mixture on dextrogyrate pinene." Since graduation he has been engaged in the retail drug business as proprietor of the City Drug Store at Iron River.

**N**AFFZ, EDWIN. Born at Madison in 1866. Educated in the Sauk City schools. Apprenticed to his father Charles Naffz, from May 1881 to Sept. 1883. Entered the university in 1883 and graduated as Ph. G. in 1885. Thesis: "Solubility of chemicals." Reentered the university in the fall and received the degree of B. S. in 1889. He then entered Rush Medical College and later received the degree of M. D. from that institution. Since then he has been practising medicine in Chicago. Home address, 2904 Archer avenue.

NAFFZ, GUSTAV. Born Oct. 6, 1868 at Sauk City. Received his preparatory education in the local graded and high schools. Had been two years, from Sept. 1885 to Sept. 1887, in the drug store of Charles Naffz at Madison before entering the university in 1887. Graduated in 1889 as



G. NAFFZ, '89.

Ph. G. Thesis: "Preparations of National Formulary." After graduation he was employed as pharmacist at the National Soldiers Home at Milwaukee for two and one half years, and then for W. W. Alpers of Wausau for two and three fourths years. Since December 1894 has been engaged in the retail drug business for himself at 412 Third St., Wausau.

**NASH, FRANK LESTER.** Born at Hudson in 1874. Received his preliminary education in the Hudson public schools. He was in the employ of E. E. Gatchell in the latter's pharmacy, from June 1891 to September 1893. He entered the university in that year and graduated in 1895 with the degree of Ph. G. Thesis: "On the action of Bertram's mixture on laevogyrate pinene." Since graduation he has been employed as clerk at Hudson and is now at Minneapolis.

**NOER, OLAF.** Born in Norway, February 12, 1860. He attended the Eau Claire High School and the River Falls Normal and then entered the university as a special student during the year 1885-'86 and took his first year in pharmacy in 1886-'87. He then entered the drug store of Ole Noer at Sand Creek, remaining there from July 1887 to August 1888. He returned to the university that fall and completed his course in 1889, but did not receive his degree of Ph. G. until 1891 when he had secured the required amount of drug store experience, having served with E. F. Ramstand of Westby, from April 1, 1889 to October 9, 1890, and P. C. Boyden of Hudson, from October 10, 1890 to October 1891, with Max Wort of Duluth, Minn., from October 1891 to June 1892, Wm. Harlow of Baldwin, Wis., from June 1892 to February 1893. From February 1893 to June 1899 manager and prescription clerk in the pharmacy of Mrs. C. F. Ramstand at Westby. Since November 1899 proprietor of a pharmacy in Menominee.



O. NOER, '91.

**NOLTE, SIMON CHRISTIAN HENRY.** Born in Milwaukee June 15, 1875. Received his preliminary education in the graded and high schools of Milwaukee, graduating from the East Side High School in 1895. He entered the University in the fall of that year and graduated in 1899 with the degree of B. S. in Pharm. Thesis: "On the assay of carvone containing oils," published in the Ph. Arch., vol. 3, p. 81. After graduation assisted L. S. Nolte, M. D., in Milwaukee until August, when he was employed as an assistant chemist by the Milwaukee Gas Light Co. In September 1900 he was appointed assistant

to the Professor of chemistry in the Pharmacy Department of the Milwaukee Medical College. Home address 1506 Humboldt Avenue.



S. C. H. NOLTE, '99.

the vacation of 1888-'89, and after graduation until Sept. 1889, when he entered the employ of J. A. Dadd of Milwaukee. He remained there until April 1890, when he returned to Madison and conducted the store of Wilson Fox until Oct. 1894. He purchased the store at this date and has remained there, in business, up to the present time.

**PETERS, HENRY AUGUST.** Born at Oconomowoc, Aug. 5, 1872. He attended the Oconomowoc High School, before entering the University in 1890. He was also apprenticed to Dibble & Brown of Oconomowoc during the two years previous. He graduated in 1892 with the degree of Ph. G. Thesis: "Resin from Canada

Balsam," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 45. He has been employed as head prescription clerk, for Fred. M. Brown, at Oconomowoc, since 1892.

PITTMAN, FRANK. Born in 1867 at Boscobel. His preliminary education was received in the Boscobel High School, and with M. B. Pittman of Boscobel. He entered the university in the fall of 1886; he returned to the drug store during the next year, working with his former preceptor, and returned to the university in 1888, graduating as Ph. G. in 1889. Thesis: "Elixirs." After graduation he entered his father's store as junior partner, at Boscobel, the firm name being M. B. Pittman & Son. He severed his connection with his father in 1890 and entered into the employ of R. D. Pulford at Mineral Point, remaining there until 1892. He started in business for himself at Winona, Minn., and is now located at 59 West Third Street.



E. M. POSER, '88.



H. A. PETERS, '92.

POSER, EDW. MARTIN. Born at Kewaunee, April 28, 1868. His preliminary training was received at the local high school, and in the drug store of C. & J. Roberts of Kewaunee from May 1, 1884 to July 31, 1886. He was also in the employ of the above firm during the vacation between his two years at college. He entered the university in 1886 and graduated as Ph. G. in 1888. Thesis: "Analysis of washing powders," published in the Proc. Wis. Pharm. Assoc., vol. 9, p. 50. After graduation he was pre-

scription clerk for Falk Bros. of Stoughton from April 1888 to Sept. 1891. He then matriculated as a medical student at, and graduated from Rush Medical College of Chicago as M. D. in 1893. He was for a time Assistant Physician at the Milwaukee County Hospital, and then later located at Columbus, as a practising physician and surgeon.

**R**AKE, WARREN GEORGE. Born at Freedonia, July 10, 1866. Was prepared for college at the local graded school, and also at the Whitewater Normal School. Entered the univer-

in 1882, and completed his first years work. Was then apprenticed to the pharmacist at the Milwaukee Insane Asylum, from April 1884 to April 1887, D. H. Pollock & Co. of Beloit from April 1887 to December 1887, and J. V. N. Sonn of Evansville, from November 1887 to September 1888, when he returned to the university and graduated as Ph. G. in 1889. Thesis: "Glycerites of National Formulary." Since graduation he has been engaged in retail drug business, conducting his own pharmacy at Oconomowoc.



E. G. RAEUBER, '89.

schools of Milwaukee, and training in the stores of Wm. Appel from July 1880 to March 1884, and Widule and Conrath from March 1884 to September 1887, both of Milwaukee. He entered the university in 1887 and graduated in 1889 as Ph. G. Thesis: "Sulpho-carbolates," published in Pharm. Rundschau, vol. 7, p. 103. Since graduation he has served as manager of a retail pharmacy in Chicago, laboratory overseer for Reid Murdock & Co., Chicago, and at present manager and chemist for the Wisconsin Pharmaceutical Company, at 1924 Chestnut St., Milwaukee, Wis. Home address, 44 Johnson St., Milwaukee, Wis.

**RAEUBER, EDWARD GOTTFRIED.** Born Febr. 20, 1866 at Manitowoc. Received his preliminary education in the graded and high

RANDALL, MAY INEZ. Born at Ladoga in 1875. Before entering the university, she had a common school training and also four years of preparation at Ripon College, at Ripon. She entered the university as a sophomore in 1896, and graduated in 1899 as Ph. G. Thesis: "The toxic action of the halogen compounds of the alkali metals on *Lupinus albus L.*" She returned to the university the following year and received the degree of B. S. from the College of Letters and Science. Thesis: "An historical review of the work done on the flora of the territory now included within the limits of Wisconsin." Shortly after the completion of her college work she went to Colorado.

RAY, FREDERICK OAL. Born May 9, 1858 at Portland, Dodge County. His preliminary education was obtained at the Lake Mills High School, from which he graduated in 1879. He served an apprenticeship in the pharmacy of C. Engsberg of Lake Mills from September 1881 to September 1884, when he entered the university. He graduated as Ph. G. in 1886. Thesis: "Horsechestnut leaves," published in the *Contrib. Dept. Pharm., U. W.*, vol. 2, p. 27. Since graduation he clerked for W. P. Stearns of Monroe, from April 1886 to October 1887; J. L. B. Thomas of Horicon, from May 1888 to June 1889. He purchased the pharmacy of F. A. Scheuber at Jefferson in 1890, and conducted it under his own management until Nov. 1900 when he sold his pharmacy and purchased a local hotel.



M. I. RANDALL, '99.

RAYMOND, CLARENCE BLACKISTON. Born at Smyrna, Delaware, April 28, 1870. He was prepared for college at the local high school, and also at the Pennsylvania Military College, graduating from there in 1890 as B. S. He entered the university in 1890 and finished his college work in 1892, but did not receive his degree, not having any practical experience in drug stores. He served his two years

with D. M. R. Culbreth, and H. W. Valentine, both of Smyrna. He received his degree in 1894. Thesis: "Carvol," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 74. Since graduation he has been connected with the drug business as clerk, and now proprietor at Smyrna, Del.

**REICHERT, ARTHUR LOUIS.** Born at Dundas, Rice Co., Minn., April 13, 1876. He received his early education at the Dundas and Mayville, (Wis.) High Schools. He also worked in the pharmacies of Nehls & Co., Juneau; F. Wenat, Juneau; and Hugo Dietz, Milwaukee. He entered the university in the fall of 1895 and graduated in June 1877 as Ph. G. Thesis: "On the chemistry of *Abies balsamea* Miller." Since graduation he has been connected with F. Heidegerken of Browerville, Minn., as clerk, until April 1900, when he entered the firm. The firm name now being Heidegerken and Reichert.



C. H. REX, '87.

He graduated in 1887 as Ph. G. Thesis: "Extractum Malti," published in the Pharm. Rundschau, vol. 5, p. 107. He clerked for Falk Bros. of Stoughton, from Sept. 1887 to July 1888. He then returned to his father at Hustisford, remaining there until Sept. 1889. From October 1889 until July 1890 with F. Esau, 479 Reed St., Milwaukee. In July 1890 he entered into partnership with his father at Hustisford, under the firm name of H. Rex & Son, where he is at present. He has served in various city positions since locating at Hustisford.

**RHYME, FRANK AUGUSTUS.** Born at Bloomfield, Walworth Co., January 28, 1863. He attended the Lake Geneva High School, and

also served as clerk in the pharmacy of R. B. Arnold, from January 1880 to September 1884. He entered the university in 1884 and graduated as Ph. G. in 1886. Thesis: "Alkaloidal reagents," published in the Contr. Dept. Pharm., U. W., vol. 2, p. 45. Since Sept. 1886 he has conducted a retail pharmacy of his own at Portage, Wis.

RICHTMANN, WILLIAM OSCAR. Born at Arcadia, Nov. 30, 1875. He attended the local graded and high schools, graduating in 1892. He was apprenticed to E. Maurer of Arcadia, for several years previous. He entered the university in 1892 and graduated as Ph. G. in 1894. Thesis: "Menthene nitrosochloride and derivatives," published in part in the Proc. Am. Pharm. Assoc., vol. 43, p. 1048. He was employed by T. H. Spence of La Crosse during the summer of 1894, then returned to the university that fall, as Assistant in Pharmaceutical Chemistry. During the next two years, 1895—1896; 1896—1897, he held the Fred Pabst Fellowship in Pharmaceutical Chemistry. He graduated from the four year pharmacy course in 1897 with the degree of B.S. in Pharm Thesis: "The menthol group," a preliminary report of which was published in the Am. Chem. Jour., vol. 18, p. 763; also in the Proc. Am. Pharm. Assoc., vol. 44, p. 200. Other publications over his signature are "Assay of Gambir," Pharm. Review., vol. 15, p. 27; "The assay of *Nux Vomica*," Pharm. Review, vol. 17, p. 208; "Percentage by Weight of Chloroform in Chloroform Emulsion," Pharm. Review, vol. 17, p. 156; "Lack of Uniformity in the Naming of Reagents," Pharm. Review, vol. 18, p. 163; "Bibliography of Spirit of Nitrous Ether and Ethyl Nitrite" (with J. A. Anderson), Pharm. Archives, vol. 2, p. 121; "Preparation of Aromatic Waters" (with A. G. Griddle), Pharm. Archives, vol. 3, p. 21; "Bibliography of Aromatic Waters," vol. 3, p. 31; "The Inversion of Cane Sugar in various Pharmaceutical Preparations" (with A. H. Woltersdorf), Pharm. Arch., vol. 3, p. 101.



W. O. RICHTMANN, '94.

In Sept. 1897 he bought into the Galesville Pharmacy at Galesville, Wis., the firm name changing from Kneeland & Son, to Kneeland & Richtmann. In October 1898 he sold his interest in the store, and returned to the University as Instructor in Practical Pharmacy. Upon the return of Dr. Fischer in Sept. 1900, the former instructor in the above department, Mr. Richtmann was transferred to the department of Pharmacognosy as Instructor.

ROBERTS, HENRY FLETCHER. Born at Dodgeville, May 9, 1863. Received his preliminary education at the local high school, then entered the Academic department of the university in 1890, remaining two years. Was also in the employ of James Roberts, his father,

at Dodgeville for several years previous to entering the university. He entered the department of pharmacy in 1883 and graduated in 1885 with the degree of Ph. G. Thesis: "*Krameria lankeolata Torrey*," published in the Contr. Dept. Pharm., U. W., vol. 1, p. 21. Since graduation he has been engaged in the retail drug business at Dodgeville.



G. E. ROTH. '90.

before entering the university. He entered in 1891 and graduated in 1893 as Ph. G. Thesis: "Menthene nitrosochloride and ammonia," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 85. Since graduation he has been connected with pharmacy as proprietor of a drug store at Albany, Wis.

ROTH, GEORGE EDWARD. Born November 20, 1867 in Milwaukee. His preliminary training was obtained at St. John's School at Milwaukee and Northwestern College at Watertown. His early drug store training was received from A. von Trott, from April 1884 to June 1887; A. C. Estberg, both of Milwaukee, from July 1887 to

June 1888. He entered the university in 1888 and graduated in 1890 as Ph. G. Thesis: "Production of Zinc," published in the Pharm. Rundschau, vol. 8, p. 235. He was employed by J. Dadd & Son of Milwaukee, from July 1890 to June 1895. Since when he has been employed as city (Milwaukee) salesman for the wholesale drug firm of Chas. Baumbach Co., now the Yahr Lange Co. Home address 2913 Brown St., Milwaukee.

RUENZEL, HENRY GOTTLIEB. Born July 18, 1861 at Milwaukee, Wis. Received his preliminary education in the graded schools of Milwaukee. Was apprenticed to Widule & Conrath of Milwaukee, from October 1879 to October 1883. He entered the university in the fall of 1883 and graduated in April 1885 as Ph. G. Thesis: "The U. S. P. application of Kerner's test to quinine and some of its salts," published in the Contr. Dept. Pharm., U. W., vol. 1, p. 11; also "The examination of the root of a western aconite," published in the Contr. Dept. Pharm., U. W., vol. 1, p. 18. He purchased a pharmacy at 753 Third St., Milwaukee, of which he is still proprietor. In March 1891 he opened a branch store at Sixth and Walnut Sts., but disposed of it May 21, 1897.



H. G. RUENZEL, '85.

RUPP, JOHN. Born at Sauk City, April 17, 1865. Was prepared for college at the Arcadia High School. He was in the employ of C. H. Naffz of Madison, from March 1888 to September 1888, when he entered the university and completed his first year. He resumed his work with Mr. Naffz from April 1889 to September 1889 when he returned to the university for his second year. Then from April 1890 to September 1890 with C. H. Boehme, of West Superior, and from September 1890 to March 1892 with W. S. Gardner, of Oconomowoc. He then received his degree of Ph. G., having obtained the required

amount of drug store experience. Thesis: "Tannic and Gallic Acids." In October 1892, purchased the store of W. A. Marklin at Menasha, where he is at present.

**S**CHEE, JOHN. Born in Norway, June 11, 1862. His preliminary education was received in the common schools and at the University of Norway. His drugstore training was given in the stores of Ph. Jermann of Viroqua, from June 1, 1885 to January 18, 1886; C. H. Trowbridge of Viroqua, from January 19, 1886 to October 1, 1886, when he entered the Chicago College of Pharmacy and completed the first year. He then was employed in the pharmacy of W. H. Brandt, at Cashton, from March 1, 1887 to August 1, 1887. With E. F. Ramstard of Westby, from August 2, 1887 to March 1, 1888, with W. H. Brandt of Cashton, from March 1, 1888 to August 1, 1888. He then entered the University and graduated in 1889 as Ph. G. Thesis: "Cocoanut oil." He entered the university of Michigan in the fall of 1889 and studied medicine, graduating as M. D. in 1892. He returned to Westby where he practiced medicine until 1894, when he moved to Blanchardville, where he is at present.



F. A. SCHEUBER, '85.

**SCHEMPF, JOHN WILLIAM.** Born March 5, 1874 at Watertown. He received a common and high school training at the local schools. He was apprenticed to H. F. Eberle of Watertown during two years. He entered the University in 1893 and graduated in 1896 from the three years course as Ph. G. Thesis: "Optically inactive borneol from synthetic pinene." Since graduation he was with A. Spiegel Co. of Milwaukee for three years. In 1899 he opened a pharmacy at Watertown with H. L. Schulz as co-partner, under the firm name of Schempf & Schulz, 203 Main St., Watertown.

**SCHEUBER, FRANK AUGUSTUS.** Born at Erfurt, Wis., May 18, 1866. Received a common school training and was apprenticed to

A. R. Bechaud of Jefferson, from January 1, 1881, to September 30, 1883, when he entered the University. During the vacation from May 10, 1884, to August 7, 1884, at Beloit with F. S. Fenton. He completed his course at the University in 1885, receiving the degree of Ph. G. Thesis: "Solubility of chemicals," published in the *Contr. Dept. Pharm., U. W., vol. 1, p. 24.* Since graduation he has been connected with the Scheuber Drug Co., of Livingstone, Montana, as pharmacist and co-partner.

SCHORSE, GUSTAV OTTO. Born in 1869. Was apprenticed to Schorse & Co., of Milwaukee, from July 1886, to August 1889. He entered the University in 1889 and graduated as Ph. G. in 1891. Thesis: "Citronellon." He returned to Milwaukee after graduating, but left in 1894 and is now at Denver, Col.

SCHREINER, OSWALD. Born at Nassau, Germany, May 1875. He received his preliminary education at the Baltimore Polytechnic Institute, was in the employ of L. Keuthe of Baltimore, Md., for five years. He attended the Maryland College of Pharmacy and received the degree of Ph. G. in 1894. The following year he devoted to special study in chemistry at the Johns Hopkins University. In 1895 he was appointed U. S. P. Research Fellow at the University of Wisconsin. The next year he was appointed Assistant, and in 1897 Instructor in Pharmaceutical Technique, which position he now holds. He received the degree of B. S. in Pharm. in 1897. Thesis: "A study of aqueous soap solutions," published in *Zeitschr. f. Phys. Chem., 27, p. 552.* The degree of M. S. was given him in 1899. Thesis: "Nitroso derivatives of the sesquiterpenes," published in *Pharm. Archives, 2, p. 282.* Other published articles by him, are: "Relation of chemistry to medicine," *The Med. & Surg. Reporter, 70, p. 65;* "The antiseptic treatment of infectious diseases and their poisonous



O. SCHREINER, '97.

remedies rendered innocuous," Virginia Med. Monthly, 21, p. 498; "The newer synthetic remedies; their chemistry, pharmacy and therapy," Maryland Med. Jour., 31, p. 437; 32, pp. 5, 172; with Louis Kahlenberg, "Ueber Borsäure und ihre Salze," Ztsch. f. phys. Chem., 20, p. 547; with Edward Kremers, "The quantitative estimation of carvone in volatile oils," Pharm. Review, 14, p. 76; with Edward Kremers, "The quantitative estimation of phenols in volatile oils," Pharm. Review, 14, p. 221; with Edward Kremers, "Application of the carboxime method to adulterated spearmint oil," Pharm. Review, 14, p. 244; with Edward Kremers, "Estimation of hydrocyanic acid in bitter almond oil," Pharm. Review, 14, p. 196; with C. F. James, "True and bis-nitroso addition products of caryophyllene," Pharm. Archives, 1, p. 209; with Edward Kremers, "Nitroso derivatives of caryophyllene and cadinene and their bearing on the characterization and classification of the sesquiterpenes," Pharm. Archives, 2, p. 282; "Saw palmetto oil," Pharm. Review, 18, p. 217; "Distilling column for illustrating the principle of fractional distillation and of dephlegmators," Pharm. Review, 18, p. 8; "Specific gravity and the official temperature," Pharm. Review, 18, p. 457; "On the most suitable temperature for volumetric tests," Pharm. Review, 18, p. 503; "History of the art of distillation and of distilling apparatus," Pharm. Review, 18, pp. 447, 493, 559; 19, p. 15.

SCHROEDER, JOHN HUGO. Born at New Holstein, Wis., Aug. 28, 1875. He was prepared for college in the public schools, and Lawrence University at Appleton. His pharmaceutical training was received from W. W. Albers of Wausau and P. Ladwig of Milwaukee. He entered the University in 1896 and graduated as Ph. G. in 1898. Thesis: "Notes on Pinene." He was a member of the First Regiment Band of the First Wisconsin Volunteers during the Spanish-American War. He returned to the university in 1898 as assistant in practical pharmacy. In the fall of 1899 he entered the employ of E. E. Williams at Antigo as prescription clerk, where he is at present.

SCHUETTE, HERMAN ALBERT. Born at Beaver Dam, July 8, 1870. Attended the local graded and high schools. Was apprenticed to P. H. Beule at an early age, and remained with him during vacations, until he entered the University in 1888. He remained away

during the next year, but returned in 1890 and graduated as Ph. G. in 1891. Thesis: "The Iso-terpenes of Flawitzki." He remained at Beaver Dam for several years, then went to Colorado Springs, Col., where he opened a drug store. Then sold his business and accepted a position as traveling salesman for a western firm, traveling through Colorado, New Mexico and Arizona. Address: 109 N. Tejon St., Colorado Springs, Col.

SCHULZ, HENRY LOUIS. Born at Watertown, February 24, 1876. Was prepared for college at the local public schools and Northwestern University at Watertown. His drug store experience was received in the pharmacy of J. H. A. Schulz of Milwaukee, by whom he was employed from 1894 to 1897. He entered the University in September 1897 and graduated as Ph. G. in 1899. Thesis: "The structure of the leaf and stem of *Lophanthus anisatus* Benth." After graduating he was prescription clerk in the pharmacy of J. H. Brennecke of Watertown until during the fall when he entered into partnership with J. W. Schempf and opened a new pharmacy at Watertown. Present address: Schempf & Schulz, 203 Main St., Watertown.



W. R. SCHUMANN, '96.

SCHUMANN, WILLIAM ROBERT. Born at Prairie du Chien, July 26, 1876. Was graduated from the Prairie du Chien High School, and later employed in the pharmacy of James Henry for two years. He entered the University in the fall of 1894 and graduated in 1896 as Ph. G. Thesis: "On the chemical composition of the oil of *Monarda fistulosa*," published in the Pharm. Review, 14, p. 223. After graduating he served as prescription clerk with J. A. Erhart & Son and later G. E. Mariner, both of La Crosse. Since 1899 he has been with Schieffelin & Co. of New York as salesman. Address: Care of Schieffelin & Co., New York.

SCHWARZ, HERMAN FREDERICK. Born at Green Bay June 25, 1876. Received his early education in the graded and high schools of Green Bay, prepared for college at Northwestern University of Watertown, and obtained his pharmacy training with W. A. Kropp; Cauwenbergh Bros. of Green Bay, and A. C. Weisenborn of Milwaukee. He entered the University in 1895 and graduated from the three years' course in 1898 as Ph. G. Thesis: "On the assay of volatile oils for thymol and carvacrol." He returned to Milwaukee after graduating and served as prescription clerk for A. C. Weisenborn, until he purchased a pharmacy for himself in 1899, at 496 Murray St., where he is at present.

SEXTON, ANDREW. Born in 1865. Had one and a half years experience in pharmacy, with W. A. Sexton of Marshfield, before entering the university in 1886, and graduated in 1889 as Ph. G. Thesis: "Glycerin Suppositories," published in the Proc. Wis. Pharm. Assoc., vol. 10, p. 36. After graduation was engaged in the retail drug business at Marshfield with his brother under the firm name of Sexton Bros., until the time of his decease, September 23, 1891.

SHEPARD, ALFRED CLAYTON. Born at Erie, Pa., December 16, 1876. Received his preparation at the Mauston High School and in the pharmacies of Edwards & Co., from June 14, 1894 to July 6, 1895, and Comers and Hess, from July 7, 1895 to September 28, 1896, both of Mauston. He entered the University in the fall of 1896 and graduated in June 1898 with the degree of Ph. G. Thesis: "Aluminum Alcoholates." Since graduation he has been in the Phillipine Islands, connected with the U. S. army.

SHERMAN, JOHN HENRY. Born at Beaver Dam, October 22, 1863. He was prepared for college at the local high school. Was apprenticed to Fred. K. Gottling and Peter Beule, both of Beaver Dam. His first year in college was spent at the Chicago College of Pharmacy of Chicago, Ill. He entered the University in 1883 and graduated in 1884 as Ph. G. Thesis: "Examination of commercial *Aqua ammoniae*. He engaged in the retail pharmacy business at Beaver Dam for several years, then entered Rush Medical College at Chicago and received the degree of M. D. in 1890. He practiced at Cedar Rapids, Iowa, until recently when he returned to Beaver Dam and opened a pharmacy in connection with his medical practice.

SIEKER, FERDINAND AUGUST. Born at Manistee, Mich., September 21, 1869. Attended the Manitowoc Public Schools, and was apprenticed to J. E. Barnstein of Manitowoc, from January 1, 1886 to September 1, 1888, to W. L. Lardner of Oconomowoc, from April 1, 1889 to September 1, 1890, and A. H. Hollister of Madison, from September 1, 1890 to September 15, 1891. He entered the University in September 1888 and left college at the close of the year to obtain the required drug store experience. He entered again in 1891 and graduated as Ph. G. in 1892. Thesis: "Menthene and derivatives," published in the Am. Chem. Jour., vol. 14, p. 291. He was employed as assistant in the manufacturing laboratories of Lehn and Fink, immediately after graduation and is now Superintendent of their laboratories. He also holds the chair of Chemistry at the New Jersey College of Pharmacy, at Newark, N. J., since 1898. Other articles published by him are: "Notes on bismuth subgallate and subtannate," Pharm. Rev., vol. 14, p. 85; "Solution of the chlorophosphid of arsenic," Pharm. Rev., vol. 13, p. 15; "Soluble iron and quinine citrate," ibid., p. 36; "Bismuth subgallate," ibid., p. 63; "The estimation of metallic mercury in mercurial ointment," ibid., p. 137; "Fluid extract of *Sabal serrulata*," ibid., p. 236; "Notes on several fatty oils," Pharm. Rev., vol. 15, p. 112; "Laboratory notes on a) glycerin, b) resin, c) soft soap," Pharm. Rev., vol. 16, p. 14; "Laboratory notes on d) castile soap," ibid., p. 94, continued on p. 266; "Tincture of iodides, elixir of terpin hydrate," ibid., p. 304; "Laboratory notes on decolorized tincture of iodine," Pharm. Rev., vol. 17, p. 306; "Laboratory notes on mercury stearate and palmitate, collodion," ibid., p. 396; "Solution of the hypophosphites, compound without sugar," Pharm. Rev., vol. 18, p. 409; "The precipitate that forms in syrup hypophosites compound, N. F.," ibid., p. 410.



F. A. SIEKER, '92.

**SILBER, ARTHUR.** Born at Milwaukee, June 1873. Attended the Milwaukee graded schools and had served two years of apprenticeship in Milwaukee pharmacies. He entered the University in 1892 and graduated with the degree of Ph. G. in 1894. Thesis: "Thiobenzaldehydes." Since graduation he has been employed as prescription clerk by C. S. Gallaher, Milwaukee, and The Robinson Drug Co., of Racine. He then engaged in business for himself under the firm name of Davis & Silber, also at Racine. He recently sold out his share in the business and is now acting as prescription clerk in one of the Racine pharmacies.

**SMITH, CLIFTON OLMS TED.** Born June 22, 1861, at Highgate, Vt. His college preparation was obtained in the Beloit public schools and in the pharmacy of C. A. Smith of Beloit from July 1882 to September 1884, and April 1885 to September 1886. He entered the University in 1884 and graduated in April 1887 as Ph. G. Thesis: "Syrup of hypophosphites." Since graduation he has served as prescription clerk for C. A. Smith, and is now a member of the firm under the name of C. A. Smith & Co. of Beloit.

**STECHER, FREDERICK WILLIAM.** Born at Oshkosh in 1866. Attended the local graded and high schools. Was apprenticed to F. W. W. Schmidt, from April 17, 1883, to Nov. 21, 1883; Geo. Bauman, one year and eleven months, both of Oshkosh; and H. W. Stecker of Cleveland, O., from April 1886 to September 1886. Entered the University in the fall of 1885, and graduated as Ph. G. in 1887. Thesis: "*Sanguinaria Canadensis*." Since graduation he has been engaged in the retail pharmacy business with his brother at Cleveland, O., under the firm name of Stecker Bros., 1066 Pearl St.

**STEINLE, WILLIAM.** Born October 6, 1869, at Madison, Wis. Received his early education in the local graded and high schools. He was apprenticed to A. A. Pardee of Madison from September 1884 to September 1887. He entered the University in 1887 and graduated in 1889 as Ph. G. Thesis: "Powdered rhubarb." He is now engaged in the drug business at Marinette under the firm name of Wm. Steinle & Co., where he has been for a number of years past.

**STEPHANY, JOSEPH KUHL.** Born at Fond du Lac, October 22, 1867. He attended the Chilton High School and was apprenticed to H. Rollman of Chilton from April 1888 to September 1888, when

he entered the University and took his first year of college work. He then entered the pharmacy of C. G. Horn of Oshkosh, where he remained from April 1889 to July 15, 1889, and G. J. Schulz of Antigo from July 15, 1889, to Aug. 30, 1891. He returned to the University in September and completed his course in April 1892, graduating as Ph. G. Thesis: "Analogue of salicylic acid." After graduating he served as prescription clerk for J. F. Albers of Antigo, for four and one-half years. He engaged in business for himself at Antigo, in October 1896; where he is at present.



H. E. STEPHENS, '92.

**STEPHENS, HARRY ELMO.** Born at Mount Hope, Wis., June 1, 1876. Graduated from the Fennimore high school and then entered the University in 1894. He obtained his drug store experience during the college vacations and was employed by A. Farnham. He graduated with the degree of B. S. in Pharm. in 1898. Thesis: "The physical properties of carvol." Since graduation he has continued in the employ of A. Farnham at Fennimore as prescription clerk.



C. A. STILCKE, '87.

**STILCKE, CHARLES ADAM.** Born July 24, 1862, at Milwaukee. Received a graded and high school education in Milwaukee and worked in the pharmacies of G. F. Platzer for three years, and Ladwig & Schranck, both of Milwaukee, for five years. He entered the University in 1883 and graduated in 1887 as Ph. G., receiving the gold medal, which was offered at that time. Thesis: "Artificial fruit essences." Since graduation served as prescription



H. J. STOLTZ, '91.

clerk in several Milwaukee stores. Then entered the employ of H. Bosworth & Son, and finally with F. Dohmen & Co. as traveling salesmen, with whom he is at present. Address: 583 Thirty-second St., Milwaukee, Wis.

**STOLTZ, HERMAN JOHN.** Born February 3, 1867, at Milwaukee. Attended the Milwaukee Public Schools, and served an apprenticeship in the pharmacy of J. A. Dadd & Son from January 1885 to September 1889. He entered the University in 1889 and graduated with the degree of Ph. G. in

1891. Thesis: "The scale salts of iron." He was superintendent of the laboratory for F. Dohmen & Co. of Milwaukee during the year following his graduation. Then was prescription clerk for H. O. Frank until September 1893, when he engaged in business for himself. He is located at 1531 Wells St.

**STREHLOW, MAX HENRY.** Born in Clinton (now Rockdale, Dane Co., Wis., 1874. Was prepared for pharmacy in the employ of E. E. Sheldon of Fort Atkinson from June 1889 to September 1891, and from April 1892 to September 1892. He also attended the Fort Atkinson High School. He entered the University in 1891 and graduated as Ph. G. in 1893. Thesis: "The iso-terpenes of Flawitzky," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 82. Since graduation he has been employed as prescription clerk at Kindred, N. Dak. Where he is at present.



M. H. STREHLOW, '93.

SUMMER, LOUIS DUNNING. Born at Madison Nov. 7, 1870. Attended the local graded and high schools. He entered the University in 1889 in the English course, graduating in 1893 with the degree of B. L. He entered the pharmacy department in the fall of that year and graduated with the degree of Ph. G. in 1896. Thesis: "On the chemical composition of spearmint oil." He began working in the pharmacy of Edwin Sumner, when he entered the pharmacy course, and in 1896 became a member of the firm under the firm name of Edwin Sumner & Son. Since 1896 he has conducted the branch store opened then at 502 State St., Madison, Wis.

TAYLOR, DAVID ARMSTRONG. Born at Coleraine, Ireland, Jan. 18, 1869. His preliminary training was received in the public schools at Sparta, Wis., and in the pharmacy of F. N. Newton, from Jan. 1886 to Aug. 1887, when he entered the University and graduated as Ph. G. in 1890. The intervening year being spent with W. G. Spence. Thesis: "Salts of chinoline." Since graduation he has been at Stevens Point engaged in the retail drug business with his brother, firm name Taylor Bros. He was appointed to the State Board of Pharmacy in 1896, and of which board he is still a member and was president in 1900.



D. A. TAYLOR, '90.

THIESEN, THIES WILLIAM. Born at Hamburg, Germany, Nov. 19, 1867. His early training was received in the German High School at Hamburg, and his pharmaceutical training in the Plankinton House Pharmacy, Milwaukee, during two years, with H. M. Garlichs of St. Joseph, Mo., for three years, and with Gieseler & Lochner of Racine from July 1884 to November 1887. He entered the University in 1888 and graduated as Ph. G. in 1890. Thesis: "Determination of solubility," published in the Pharm. Rundschau, vol. 8, p. 203. Since graduation he has been employed as prescription clerk at Racine by the Robinson Drug Co. until 1899, when he and Mr. Kradwell purchased the interests of the above firm and have continued the several stores under the name of the Kradwell Thiesen Drug Co.



C. H. THOMPSON, '89.

which he was manager and proprietor at the time of his death, January 3, 1891.

**TOMPKINS, CHARLES FRANCIS.** Born at Milton in 1871. His preliminary education was received at the local high school and Milton college. He had three years of drug store experience, when he entered the University in 1890. He graduated as Ph. G. in 1892. Thesis: "Benzylidene dipiperidine." Since graduation he has been employed as prescription clerk in Chicago, Cincinnati and San Francisco, and is now at New York.

**TRAYSER, MARTIN CLAIR.** Born Dec. 12, 1872, at New London. He attended and graduated from the local graded and high schools. For several years before entering the University he was in the employ of his father in the latter's

**THOMPSON, CHARLES NELSON.** Born at Ixonia, Jefferson Co., June 2, 1868. He received his college preparation at the Oconomowoc public schools, and also at Wayland Academy at Beaver Dam. He was apprenticed to Dibblee & Brown of Oconomowoc, from July 1884 to September 1887, when he entered the University. He graduated in June 1889 with the degree of Ph. G. Thesis: "*Prunus Virginiana*." Upon the completion of his college course he opened a pharmacy at Oconomowoc, known as "Thompson's Pharmacy" of



M. C. TRAYSER, '94.

pharmacy at New London. He entered the University in 1892 and graduated as Ph. G. in 1894. Thesis: "Kava Kava," published in the Pharm. Rundschau, vol. 12, p. 210. Upon graduation he returned to New London and served as prescription clerk in his father's branch store which he and his brother W. A. Trayser soon purchased and managed under the name of Trayser Bros. Upon the death of their father in 1899 they assumed control of both stores.

**TRAYSER, WALTER ANTHONY.** Born at New London, July 5, 1870. He received his early education at the local high school, and pharmaceutical training in his father's pharmacy at New London. He entered the University in 1889 and graduated in 1891 with the degree of Ph. G. Thesis: "Leaves of *Pinus strobus*," published in the Proc. Wis. Pharm. Assoc., vol. 12, p. 41. Since graduation he has been at New London as prescription clerk for A. Trayser & Co., Manager and proprietor of the South Side Drug Store with his brother M. C. Trayser, and now, since the death of his father, controlling two of the local stores.



W. A. TRAYSER, '91.

**TRELOAR, DELBERT CLAUDE.** Born at Linden, Wis., April 14, 1877. He attended and graduated from Carroll College at Waukesha. He entered the University in 1897 and graduated in 1899 as Ph. G. Thesis: "The inversion of cane sugar in the United States pharmacopoeial syrups." Upon graduation he entered Rush Medical College at Chicago in the fall of 1899, but returned to pharmacy after the completion of his first year. He is now engaged as prescription clerk at Port Washington, Wis.

**TURNER, WILLIAM ALEXANDER.** Born at Oshkosh in 1872. He received his preliminary education in the Brandon graded and high schools. His drug experience was obtained in the pharmacy of



UPJOHN, JAMES. '99.

Turner & Wardrobe of Brandon, from September 1888 to September 1891. He then entered the University and graduated with the degree of Ph. G. in 1893. Thesis: "Nitroso-menthene and its reduction products," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 90. He returned to Oshkosh after finishing his college course, and became a member in the above firm. In 1898 he sold his interest in the Oshkosh pharmacy and opened a new drug store at Waupun where he is at present.

**UPJOHN, JAMES.** Born at Garrison, N. Y., July 9, 1875. He attended the Fond du Lac high schools and was employed by the Huber Drug Co. of Fond du Lac from January 25, 1895, to September 25, 1896. He entered the University in 1899 with degree of Ph. G. Thesis: "Oil of cade." After graduating he served as prescription clerk for F. Rhyme at Portage until November 1900, when he entered the employ of G. H. Gillie at Ashland in a similar capacity.

**URBAN, LEOPOLD CHARLES.** Born March 10, 1869, at Milwaukee. Attended the local graded and high school, and was apprenticed to W. A. Kropp from September 1, 1883, to September 1, 1888, and Arthur Cohn from September 1, 1888, to September 1, 1890, when he entered the University. He graduated in 1892 with the degree of Ph. G. Thesis:



LEOPOLD CHARLES URBAN, '92.

"Citronellone," Proc. Wis. Pharm. Assoc., 12, p. 61. During the next two years he was instructor in pharmaceutical chemistry at the University. He also secured the degree of Ph. M. in 1894. Thesis: "Hydrocymenes and derivatives," published in the Proc. Am. Pharm. Assoc., vol. 42, p. 251. In 1894 he engaged in the retail and manufacturing pharmacy with A. Kremers, under the firm name of Kremers & Urban. Their retail store was disposed of in 1900, and the manufacturing plant correspondingly enlarged. Other articles published by Mr. Urban are: "The menthol group II," with E. Kremers, Proc. Am. Pharm. Assoc., 41, p. 185; "Halogen derivatives of thymol and carvacrol," Pharm. Rev., vol. 14, p. 58; "Palatable cascara preparaticus," ibid., p. 270; "Examination of certain fractions of oil of hedeoma," Proc. Wis. Pharm. Assoc., vol. 12, p. 59.

**V**IVIAN, ALFRED. Born March 14, 1867, at Mineral Point. Received his early education at the local graded and high school. Was apprenticed to his father J. H. Vivian from September 1886 to September 1892. He entered the University in the fall of that year and graduated as Ph. G. in 1894. Thesis: "On the constitution of citronellic aldehyde." He returned to the University the next year 1894-1895 as Assistant in Pharmacognosy. In the fall of 1895 he was assistant in the laboratory of agricultural chemistry and in 1897 was appointed Assistant Chemist to experiment station, which position he holds at present. He has published articles on "Properties of galactase, a digestive ferment of milk (with S. M. Babcock and H. L. Russell), published in the 15th Annual Report Wis. Experiment Station, p. 77; "Distribution of galactase in cow's milk" (with S. M. B. and H. L. R.), ibid., p. 87; "Distribution of galactase in different species of mammalia" (with S. M. B. and H. L. R.), ibid., p. 93; "The antiseptic value of certain chemicals in milk (with S. M. B. and H. L. R.), ibid., p. 98; "The action of proteolytic ferments on milk with special reference to galactase" (with S. M. B. and H. L. R.), 16th Report Wis. Experiment Station, p. 157; "Influence of galactase in the ripening of cottage cheese (with S. M. B. and H. L. R.), ibid., p. 175; "Comparison of reagents for milk proteins," ibid., p. 179; "Influence of rennet on cheese ripening" (with S. M. B. and H. L. R.), 17th Annual Report Wis. Experiment Station, p. 102; "A rapid method for the estimation of salt in butter," ibid.,

p. 98; "Tables for use in the Kjeldahl method for the determination of nitrogen," *ibid.*, p. 261; "On the medicinal plants of the state of Wisconsin," *Proc. Wis. Pharm. Assoc.*, 15, p. 79.

**W**ALLSCHLAEGER, WILLIAM CHARLES F. Born Aug. 15, 1869 at Milwaukee. He attended the Public schools and Concordia College at Milwaukee and then entered into apprenticeship with M. C. Wallischlaeger, from December 1885 to August 1889, and Chas. Knoblauch, from April 15, 1890 to August 15, 1890. He entered the University in 1889 and graduated in 1891 as Ph. G. Thesis: "*Fraxinus Americana*." Since graduation he has been employed as prescription clerk by Mrs. F. W. Hartwig for four years, Knoblauch Bros. two and a half years, both of Milwaukee; L. F. High, Norway, Mich., six months; M. J. Rice, Kaukana, one and a half years. He then was employed on a ranch in western Washington during two years, and upon returning opened a pharmacy at 691 14th St., Milwaukee, where he now is.



W. C. F. WALLSCHLAEGER, '91.

of C. Annecke, from September 1, 1886 to December 1, 1888, and C. Raben, from December 1, 1888 to September 1, 1889. He entered the University in 1889 and graduated in 1891 as Ph. G. Thesis: "Benzene p-cyan p-sulphuric acid and its potassium salt." Since graduating he has attended the College of Physicians and Surgeons at Milwaukee, graduating in 1895 with the degree of M. D. He was also connected with the faculty of the college as Instructor of *Materia Medica*. He is practicing medicine in Milwaukee at present.

WEGNER, EMIL ALBERT. Born at Milwaukee in 1868. Received a common school education in the local schools and was apprenticed

to A. H. Cohn of Milwaukee from October 1, 1884, to Aug. 30, 1888, and A. E. Mieding, of the same place, from April 1, 1889, to September 1, 1889. He entered the University in 1888 and graduated as Ph. G. in 1890. Thesis: "Preparations of National Formulary." Since graduating he has been connected with several pharmacies in Milwaukee as prescription clerk. He is now proprietor of a retail pharmacy at 981 Booth St., Milwaukee.

**WEHLE, WILLIBALD JOHANNES.** Born at St. Louis, Mo., December 2, 1870. He attended both the public schools and Trinity School of Milwaukee. He served his apprenticeship with Widule & Conrath of Milwaukee from June 27, 1886 to July 31, 1890, and then managed the store of A. von Trott, from July 1890 until August 1891. He entered the University in September 1891, and graduated as Ph. G. in 1893. Thesis: "*Fraxinus sambucifolia Lam.*," published in the proceedings of the Wis. Pharm. Assoc., vol. 13, p. 50, (also Pharm. Rundschau, vol. —, p. —). Other articles published by him are "Examination of lime water," *ibid.*, p. 35. He opened a pharmacy at West Bend, Wis., and in 1894 entered the Wisconsin College of Physicians and Surgeons at Milwaukee, graduating as M. D. in 1897. He took post-graduate work at the Chicago College of Physicians & Surgeons during 1897—1898, and 1898—1899. He is now practicing medicine at West Bend, Wis.



W. J. WEHLE, '93.

**WEIMAR, HENRY.** Born at Richfield, Wis., in 1867. He attended the graded school at Appleton, and worked in the pharmacy of J. Greulich of Appleton from September 15, 1883, until September 1885. He returned to the above place during the vacation between his two years at college. He entered the University in 1885 and graduated in 1887, with the degree of Ph. G. Thesis: "*Prunus Virginiana*," published in the Pharm. Rundschau, vol. 5, p. 203. Since

graduation he was with W. W. Albers & Co. of Wausau until 1891. He then went to Texas, where he engaged in the drug business at Paris, under the firm name of Griffith & Weimar. He moved from there to Hot Springs, Ark., and opened a pharmacy under the firm name of Weimar, Klein & Co. He has recently purchased Mr. Klein's interest and is now conducting the business under his own name.

**WERBKE, NORBERT CHARLES.** Born July 2, 1866, at Manitowoc. His early education was received in the Ward schools of Manitowoc. He obtained his drug store experience in the pharmacy of J. E. Barnstein of Manitowoc, from July 10, 1884 to September 1886,

when he entered the University. He completed the course and received the degree of Ph. G. in 1888. Thesis: "Constituents of wintergreen," published in the Pharm. Rundschau, vol. 6, p. 208. He entered the employ of J. Bauman & Co. of Oshkosh in April 1888 and remained with them as prescription clerk until March 1892. He then purchased the pharmacy at the corner of Eighth and Oregon Sts., Oshkosh, where he is at present.



N. C. WERBKE, '88.

tember 2, 1888. He entered the University in 1888 and graduated as Ph. G. in 1890. Thesis: "Medicinal plants of Minnesota," published in the Pharm. Rundschau, vol. 8, p. 155. Upon graduating he returned to Minnesota and engaged in pharmacy at Springfield, Minn.

**WESCHCKE, EMIL.** Born at New Ulm in 1866. He was apprenticed to his father, Dr. Carl Weschcke, from July 1, 1882, to July 7, 1883; A. von Trott of Milwaukee from July 7, 1883, to July 18, 1884. He then returned to New Ulm until the opening of the University in September, when he entered the pharmacy department.

He graduated in 1886 as Ph. G. Thesis: "American opium," published in the Contr. Dept. Pharm. U. W., vol. 2, p. 10. After graduating he matriculated at the College of Physicians and Surgeons at St. Louis, and later graduated as M. D. He began the practice of medicine at San Luis Obispo, Cal., and was appointed pension examiner in 1896. He returned to New Ulm, Minnesota, in 1900, to practice medicine, but soon returned to his former location in California, where he is at present.

**WIESE, RUDOLPH WILLIAM.** Born at Milwaukee February 17, 1868. He attended the local ward schools, and later the Northwestern University at Watertown.

He was apprenticed to his father Rudolph Wiese of Milwaukee, from July 15, 1884 to August 15, 1888. He entered the University in September 1888 and graduated as Ph. G. in 1890. Thesis: "Liniments of the National Formulary." Since graduation he has been engaged in retail pharmacy at 601 North Avenue, Milwaukee, Wis.

**WIGDALE, ENOS SAMUEL.** Born at Cambridge, January 31, 1867. He attended the Fort Atkinson graded and high schools, and worked in the pharmacy of C. J.

Tufte of Duluth, Minn., from March 1896 to October 1896. He entered the University in 1896 and graduated in 1898 as Ph. G. Thesis: "Structure of *Podophyllum peltatum L.*," published in the Pharm. Archives, vol. 3, p. 1. He was engaged as assistant pharmacist, by H. J. O'Connor during the latter part of 1898. In October 1899 he returned to the University and entered the General Science Course. Address, 311 Park St., Madison, Wis.

**WILLIAMS, EDWARD.** Born April 12, 1867, at Vinegar Hill, Davies Co., Ill. Attended and graduated from the Hazel Green High School. Was employed in the pharmacy of Leroy & White, Brookings,



E. S. WIGDALE, '98.

S. Dak., from September 13, 1886, to January 13, 1887. He entered the pharmacy department of the University in 1889. Upon the completion of his first years work he obtained the required amount of drug store experience with George Mills of Hazel Green, from April 1, 1890, to August 1, 1890; McDonald & Horan of Rockford, Ill., from August 1, 1890, to Aug. 15, 1891; Dunning & Sumner of Madison, from September 1, 1891, to August 1, 1892. He returned to the university in September 1892 and graduated as Ph. G. in June 1893. Thesis: "The iso-terpenes of Flawitzky," published in the Proc. Wis. Pharm. Assoc., vol. 13, p. 79. He was prescription clerk for Edwin Sumner of Madison until September 1, 1894, when he purchased the Monona Pharmacy, 1 W. Main St., Madison, Wis. He is in business at this place at the present time.

WILLIAMS, EDWIN EMMOR. Born at De Pere, February 14, 1871. He received his preparation for college in the local high school and H. I. Wheeler, with whom he served his apprenticeship from May 1, 1883, to September 9, 1889. He then entered the University and graduated in April, 1891, as Ph. G. Thesis: "Toluene p-cyan m-sulphonate of potassium." Since graduation he has been engaged in the practice of pharmacy at Antigo, Wis.

WILLIAMS, ROBERT THOMAS. Born at Racine, Wis., October 16, 1873. Attended the local ward schools and worked with Gieseler & Lochner of Racine for two years. He entered the University in 1892 and graduated as Ph. G. in 1894. Thesis: "The volatile oil from *Canella alba*," published in the Pharm. Rundschau, vol. 12, p. 183. After leaving college he acted as prescription clerk for W. R. Kirby of Racine for three years, The Blose Drug Co., Leadville, Col., for six months, The Kradwell Thiesen Drug Co. (formerly The Robinson Drug Co.), with whom he is at present.

WITTE, WILLIAM CARL FERDINAND. Born at Milwaukee in 1869. Attended the local public schools, and entered the University in September 1891 without drug store experience. He completed his college course in 1892, but not having had any drug store experience was not granted his degree. He obtained the required amount of experience and was granted the degree of Ph. G. in 1897. Thesis: "A chemical examination of pennyroyal oil," published in the Proc. Wis. Pharm.

Assoc., vol. 13, p. 55. He later attended Rush Medical College at Chicago, Ill., graduating as M. D. in 1898. He is at present practicing medicine in Milwaukee.

WRIGHT, CHARLES EDWIN. Born at Dunlap, Iowa, Aug. 22, 1864. He attended the Plateville Normal School at Plateville, Wis. He was apprenticed to his father G. M. Wright, from September 1881 to September 1, 1884. He then entered the University in 1884 and completed the first year, remained away two years, during which time he was employed in his father's pharmacy. He returned to the University in 1887 and graduated as Ph. G. in 1888. Thesis: "Mixed esters of dibasic acids." After graduating he returned to Plateville and engaged in retail pharmacy with his father.

WRIGHT, ELMER EMORY. Born February 3, 1869 at Prairie du Chien. He attended the Prairie du Chien graded and high schools and was apprenticed to E. M. Wright of Prairie du Chien, from March 1, 1885 to September 1, 1887. He entered the University in the fall of that year and graduated in April 1889 as Ph. G. Thesis: "Syrups of the National Formulary." Since graduation he has been prescription clerk for his former preceptor at Prairie du Chien and is now working in a similar capacity at Dubuque, Iowa.







## DIRECTORY OF RETAIL DRUGGISTS.

Arranged alphabetically according to cities and towns.

ABBOTTSFORD—Clark Co.  
Reynolds, J. S.—A, 1040.  
ABLEMAN—Sauk Co.  
Fey, Adam—R, 786.  
Goedecke, Louis—R, 787.  
ALBANY—Green Co.  
Bartlett, Geo. W.—R, 64.  
Roberts, Wm. D.—L, 1688.  
ALBION—Dane Co.  
Collins, T. B.—R, 827.  
ALGOMA—Keweenaw Co.  
Boedeker, H. F.—A, 962.  
Doyen, Silas L.—R, 38.  
Kwapil, Vojta—L, 2054.  
Pembleton, B. G.—L, 2221.  
ALMA—Buffalo Co.  
Agnew, Edw. S.—A, 299.  
Auer, Alice E.—A, 981.  
Bugsell, A.—  
Buzzell, Arthur—L, 2117.  
Unseth, O. A.—  
ALMA CENTER—Jackson Co.  
Breakey, Geo. M.—A, 645.  
Strauss, R. J.—A, 1139.  
AMERY—Polk Co.  
Dewey, Wm. F.—L, 1957.  
AMHERST—Portage Co.  
Guernsey, A. H.—R, 256.  
Guernsey, Geo. A.—L, 2183.  
Starks, Edgar—R, 195.  
ANTIGO—Langlade Co.  
Aldrich, M. J.—R, 1023.  
Lueck, A. A. F.—L, 1955.  
Mead, John L.—L, 1621.  
Schroeder, J. H.—L, 2220.  
Williams, E. E.—L, 1589.  
Witterding, A. L.—A, 1130.

APPLETON—Outagamie Co.  
Bailey, F. C.—A, 698.  
Berg, Geo. W.—R, 771.  
Blair, Ed. A.—A, 1065.  
Calmes, Frank, Jr.—A, 929.  
Cook, J. H.—R, 87.  
Foster, Henry A.—R, 681.  
Greulich, Jos.—R, 822.  
Hawes, J. A.—R, 756.  
Heimann, H.—L, 1329.  
Kamps, J. H.—L, 730.  
Kuehmsted, Otto—R, 610.  
Little, Chas. S.—R, 757.  
Loetz, Frank A.—L, 1910.  
Montgomery, W. F.—R, 571.  
Root, Frank A.—A, 632.  
Ruh, Aug. P.—L, 2123.  
Sacksteder, C. J.—L, 2206.  
Sacksteder, Edw. W.—L, 1630.  
Setz, Herman—L, 1973.  
Woelz, F. W.—L, 2174.  
Woelz, Geo. A.—A, 1024.  
ARBORVITAE—Vilas Co.  
Timlin, F. D.—A, 597.  
ARCADIA—Trempealeau Co.  
Hoeschler, C. A.—L, 1914.  
Maurer, Emil—L, 1099.  
ARENA—Iowa Co.  
Jones, Wm. H.—R, 196.  
ARGYLE—LaFayette Co.  
Hansen, C. A.—R, 506.  
Muenich, F. C. O.—L, 1930.  
ASHLAND—Ashland Co.  
Alter, Ered V.—L, 2145.  
Beil, Wm. P.—A, 751.  
Giese, Edward—L, 1985.  
Gillie, Herman G.—R, 452

- Harrison, Geo. W.—L, 1950.  
 Hoppenyan, E. J.—L, 1854.  
 Ihk, Otto W.—A, 752.  
 Kalk, Wm. A.—L, 2207.  
 Puffer, John D.—R, 377.  
 Puffer, Mary L.—A, 92.  
 Thielmann, T. J.—L, 2114.  
 Upjohn, Jas.—L, 2203.  
 Warner, A. F.—L, 1345.  
 Warner, Louis A.—L, 996.  
 Weed, H. D.—R, 842.  
 Woodhead, Jos. V.—L, 1598.
- ATHENS—Marathon Co.  
 Cotanche, Wm. G.—A, 1018.
- AUGUSTA—Eau Claire Co.  
 Dettloff, F. A.—L, 2001.  
 Livesey, Chas.—L, 2106.  
 Paul, Geo. H.—A, 1041.  
 Ryall, E. C.—R, 23.
- AVOCA—Iowa Co.  
 Mann, John F.—L, 1669.
- BALDWIN—St. Croix Co.  
 Christensen, L. A.—R, 360.  
 Evans, Walter H.—L, 1862.  
 Haarlow, W.—R, 361.  
 Martin, Geo.—L, 1994.  
 Saugestad, O. A.—R, 370.
- BANGOR—La Crosse Co.  
 Bosshard, O. W.—L, 2146.  
 Bosshard, Wm. E.—L, 1574.  
 Evans, R. R.—R, 213.  
 Yates, Chas. H.—L, 2013.
- BARABOO—Sauk Co.  
 Baringer, W. E.—L, 2006.  
 Donovan, J. B.—R, 200.  
 Dyrud, Chris.—L, 2184.  
 Evenson, Chas. H.—, 1156.  
 Fisher, A. F.—R, 383.  
 Fisher, Ernest A.—L, 1193.  
 Fisher, Herman A.—L, 1046.  
 Melzl, Edw. W.—A, 734.  
 Whitman, Chas. W.—R, 292.  
 Whitman, Frank—R, 293.
- BARNEVELD—Iowa Co.  
 Pryor, Jas. W.—A, 679.
- BARRON—Barron Co.  
 Brandt, W. H.—R, 744.  
 Felts, H. B.—A, 1090.  
 Noble, F. S.—L, 1031.
- BAYFIELD, Bayfield Co.  
 Hellweg, Lester A.—L, 1575.
- BEAVER DAM—Dodge Co.  
 Griffis, W. C.—R, 15.  
 Helbing, Chas. W.—L, 1782.  
 Hughes, Harry J.—L, 1627.  
 Miller, Geo. J.—A, 991.  
 Sherman, J. H.—  
 Zimmermann, A. A.—L, 1277.
- BELLEVILLE—Dane Co.  
 Williams, W. T.—R, 398.
- BELMONT—La Fayette Co.  
 Brown, R. W.—R, 1001.  
 Minor, Orrin E.—R, 829.
- BELOIT—Rock Co.  
 Blair, W. G.—L, 1075.  
 Collyer, B. B.—L, 1242.  
 Emerson, C. A.—R, 500.  
 Farnsworth, J. M.—L, 2051.  
 Kaiser, E. O.—L, 2072.  
 Pollock, D. H.—L, 1447.  
 Penberthy, W. B.—A, 1077.  
 Smith, C. A.—R, 135.  
 Smith, C. O.—L, 1125.  
 Smith, E. R.—R, 352.  
 Stevens, Alice M.—A, 982.  
 Tobin, Jos. H.—A, 740.  
 Van Wart, Frank—A, 330.  
 Wheeler, O. D.—A, 1134.
- BENTON—La Fayette Co.  
 Jones, Chas. H.—A, 947.
- BERLIN—Green Lake Co.  
 Dodson, Chas. M.—L, 1331.  
 Doty, Claude M.—A, 1073.  
 Jones, Alfred T.—L, 1552.  
 Kolpin, E. E.—L, 2024.  
 Lambrecht, F. W.—L, 2062.  
 Liese, Wm. A. F.—A, 876.  
 Soik, L. H.—L, 2215.
- BLACK EARTH—Dane Co.  
 Thomas, Thos. P.—A, 694.

- BLACK RIVER FALLS—Jackson Co.  
Bennett, Harry—A, 610.  
Cole, F. W.—R, 523.  
Cole, J. W.—R, 524.  
Ellis, M. F.—L, 2190.  
Gullord, P. W.—L, 1125.  
Warner, B. C.—L, 1685.
- BLAIR—Trempealeau Co.  
Vold, John H.—L, 2028.
- BLANCHARDVILLE—La Fayette Co.  
Holland, H. R.—A, 985.  
McKellar, Arch.—L, 2119.  
Schee, John—L, 1453.
- BLOOMER—Chippewa Co.  
Dettloff, Edw. C.—L, 2005.  
Hathaway, J. R.—R, 748.  
Zimmermann, R. E.—L, 1407.
- BLOOMINGTON—Grant Co.  
Holford, L. D.—R, 83.  
Moessner, F. R.—L, 2191.
- BLUE MOUND—Dane Co.  
Bancroft, H. V.—A, 206.
- BOAZ—Richland Co.  
Hanold, A. C.—A, 1031.
- BOSCOBEL—Grant Co.  
Dyer, Geo. W.—R, 457.  
Favor, Hiram W.—R, 28.  
Kradwell, F. A.—L, 2169.  
Meller, I. A.—L,  
Pittman, Matt B.—R, 198.  
Pittman, W. H.—A, 30.
- BOYD—Chippewa Co.  
Cook, Harry W.—L, 1838.  
Meller, J. A.—L, 2234.
- BRANDON—Fond du Lac Co.  
Turner, W. A.—L, 1697.
- BRILLION—Calumet Co.  
Andrews, Dale—L, 1577.  
Burnard, S. D.—A,  
Sezarzynski, Chas.—L, 1068.
- BRODHEAD—Green Co.  
Broughton, John A.—R, 289.  
Clarke, Henry P.—R, 700.  
Lyons, E. M.—R, 663.  
Stair, Henry—R, 754.  
Taylor, D. W. H.—L, 970.
- Towne, L. A.—R, 667.  
Towne, L. E.—R, 733.
- BROOKLYN—Green Co.  
Ellis, A. G.—R, 188.
- BROWNTOWN—Green Co.  
Kelly, Chas. A.—A, 317.
- BURLINGTON—Racine Co.  
Denniston, Geo. C.—R, 240.  
Parmelee, E. H.—R, 454.  
Prasch, F. J.—R, 327.  
Prasch, M. G.—R, 326.  
Reinardy, S. M.—L, 1432.
- BUTTERNUT—Ashland Co.  
Hayden, John J.—A, 652.
- CADOTT—Chippewa Co.  
Nichols, W. L.—L, 1597.  
Young, L. M.—L, 1203.
- CAMBRIA—Columbia Co.  
Evans, Enoch—R, 61.  
Lloyd, Wm. J.—L, 1608.  
Roberts, John E.—L, 1541.  
Rowlands, R. J.—L, 1847.  
Williams, W. E.—L, 1500.
- CAMERON—Junean Co.  
Hurlburt, O. S.—R, 936.
- CAMBRIDGE—Dane Co.  
Bilstad, O.—R, 443.  
Bilstad, G. E.—A, 848.
- CAMPBELLSPORT—Fond du Lac County.  
Durand, Platt—R, 103.
- CASCADE—Sheboygan Co.  
Bartlett, L. C.—R, 561.
- CASHTON—Mouroe Co.  
DuMez, A. A.—R, 350.
- CASSVILLE—Grant Co.  
Grimm, Alois—R, 66.
- CEDARBURG—Ozaukee Co.  
Gerrits, Geo. A.—A, 1796.  
Hartwig, T.—L, 668.  
Schiessle, Alfon—L, 1417.
- CHASEBURG—Vernon Co.  
Hoyt, J. W.—R, 731.
- CHETEK—Barron Co.  
Harley, W. H.—A, 853.  
Nickel, Wm. A.—A, 955.

- CHILTON—Calumet Co.  
 Hageman, R. C.—L, 1320.  
 Hipke, A. S.—L, 1774.  
 Rollmann, Henry—R, 153.  
**CHIPPEWA FALLS**—Chippewa Co.  
 Chisholm, D.—R, 915.  
 Dettloff, Otto C.—L, 1493.  
 Goddard, A. G.—L, 2002.  
 Ihle, Frank J.—L, 2025.  
 Metz, Alex.—L, 1997.  
 Nolte, Joseph—L, 1513.  
 Riester, Edw.—L, 1040.  
 Stapleton, L. W.—R, 272.  
 Watson, Frank—A, 345.  
**CLAM FALLS**—Polk Co.  
 Turner, F. H.—L, 1479.  
**CLEAR LAKE**—Polk Co.  
 Saxton, John C.—L, 1864.  
**CLINTON JUNCT.**—Rock Co.  
 Ames, J. W.—A, 577.  
 Cheever, R. W.—R, 11.  
 Covert, Geo.—R, 532.  
 Griswold, D. C.—R, 557.  
 Hartshorn, W. L.—R, 639.  
 Woodward, O. L.—R, 165.  
**CLINTONVILLE**—Waupaca Co.  
 Gansen, Chas.—R, 707.  
 Kalmes, John—L, 1658.  
 Meileike, Hasso A.—R, 233.  
 Sedgwick, F. A.—R, 702.  
 Willmarth, A. W.—A, 237.  
**COBB**—Iowa Co.  
 Rapson, W. J.—R, 719.  
**COLBY**—Marathon Co.  
 Briggs, O. R.—L, 2084.  
 Lavigne, John—L, 1942.  
 Wallner, E. F.—A, 1055.  
 Wilms, B. R.—R, 85.  
**COLFAX**—Dunn Co.  
 Noer, Ole—R, 728.  
**COLOMA STATION**—Waushara Co.  
 Poppe, H. B. B.—R, 743.  
**COLUMBUS**—Columbia Co.  
 Jones, John A.—L, 1647.  
 Quickenden, James—R, 703.  
 Swarthout, John—R, 519.  
 Williams, Chas. H.—L, 2142.  
 Williams, John—R, 495.  
**CROSS PLAINS**—Iowa Co.  
 Rossbach, G. M. Mrs.—A, 208.  
**CUBA**—Grant Co.  
 Florine, Frank A.—A, 745.  
**CUMBERLAND**—Barron Co.  
 James, Charlotte F.—A, 1070.  
 Lonquest, John—L, 2098.  
 Ponkey, H. H.—L, 1458.  
**CUSHING**—Polk Co.  
 Haffmeier, L. A.—L, 1457.  
**DALE**—Outagamie Co.  
 Hall, Theo. D.—A, 663.  
**DANE**—Dane Co.  
 O'Dwyer, Michael—M, 72.  
**DARIEN**—Walworth Co.  
 Williams, Deloss—R, 118.  
 Young, Riley S.—A, 280.  
**DARLINGTON**—La Fayette Co.  
 Swift, John V.—R, 855.  
 Van Wagenen, E.—R, 784.  
 Ward, Geo.—L, 1427.  
**DARTFORD**—Green Lake Co.  
 Baldwin, Geo. E.—A, 465.  
 Wheeler, J. H.—R, 141.  
**DAYTON**—Green Co.  
 Cunningham, J. P.—M, 70.  
**DEERFIELD**—Dane Co.  
 Buseth, Nils—L, 1113.  
**DE FOREST**—Dane Co.  
 Bertrand, J. H.—L, 2022.  
**DELAFIELD**—Waukesha Co.  
 Kunz, W. E.—R, 468.  
**DELAVAN**—Walworth Co.  
 Brunk, Edw. W. Jr.—L, 1794.  
 Camps, J. H.—R, 57.  
 Fernholz, Wm. F.—L, 1375.  
 Hollister, K. N.—R, 328.  
 Jackson, S. L.—R, 323.  
 Morris, M. D.—R, 922.  
 Rustad, H. C.—L, 2137.  
 Smith, Will.—L, 1288.  
**DE PERE**—Brown Co.  
 Hahn, Frank C.—A, 1086.  
 Lange, E. A.—L, 609.  
 McDonald, F. A.—L, 1482.

- McDonald, R. L.—L, 2250.  
Wheeler, H. J.—R, 635.  
Williams, E. E.—L, 1470.  
    DE SOTO—Vernon Co.  
Rogers, Jas. H.—R, 572.  
    DODGEVILLE—Iowa Co.  
Roberts, Henry F.—L, 1233.  
Roberts, James—R, 67.  
Williams, Wm. E.—L, 1058.  
    DOWNING—Dunn Co.  
Douglas, W. A.—L, 1464.  
Park, Willis H.—M, 80.  
    DOWNSVILLE—Dunn Co.  
Ranum, O. K.—R, 442.  
    DORCHESTER—Clark Co.  
Homsted, Augustus—M, 4.  
    DURAND—Pepin Co.  
Gobar, F. J.—L, 1179.  
Gobar, Geo. G.—A, 391.  
Hoeser, Aug. W.—L, 2116.  
Hougen, C. A.—L, 1436.  
Morgan, J. J.—L, 940.  
    EAGLE—Waukesha Co.  
Lorge, J. J.—L, 2036.  
Sherman, Geo. A.—M, 82.  
    EAGLE RIVER—Oneida Co.  
Beardsley, Frank—L, 1413.  
    EAST TROY—Walworth Co.  
Griste, P. O.—R, 421.  
Keats, W. S.—R, 654.  
Schwartz, B. F.—A, 911.  
Schwartz, Geo. E.—A, 1093.  
Zinn, Chas. H.—A, 756.  
Zinn, Otto W.—A, 320.  
    EAU CLAIRE—Eau Claire Co.  
Ballard, Jos. M.—L, 1035.  
Berg, A. M.—A, 1085.  
Boberg, Otto J. S.—L, 1162.  
Cass, J. E.—R, 459.  
Champlin, Thos. F.—A, 300.  
Dohrman, W. E.—A, 772.  
Fetkenhire, W. F.—L, 2205.  
Fowler, R. K.—L, 2058.  
Gadsby, F. H.—L, 1617.  
Godding, E. R.—L, 257.  
Johnson, Odin—A, 832.  
Johnson, Wm. C.—R, 70.  
Kelley, Michael B.—A, 936.  
Klofanda, A. J.—R, 447.  
Musens, H. B.—L, 1784.  
Neher, John C.—R, 95.  
Neher, John N.—L, 2026.  
Playter, E. H.—R, 607.  
Ruhe, J. M.—A, 1097.  
Urheim, Lars L.—L, 1766.  
Thompson, G. Tabor—R, 81.  
Williams, T. E.—R, 793.  
Winslow, Chas. F.—L, 459.  
Winslow, Geo. F.—R, 800.  
    EDGERTON—Rock Co.  
Brown, Joey—L, 1229.  
Doty, Geo. W.—L, 655.  
Stangl, H. J. M.—L, 1972.  
Willson, B. C.—L, 981.  
    ELEVA—Trempealeau Co.  
Bersing, N. E.—A, 665.  
    ELKHORN—Walworth Co.  
Allen, Louis H.—L, 1984.  
Flack, Will E.—L, 1907.  
Isham, Fred W.—L, 91.  
Lyon, Will B.—L, 1469.  
Scheldrup, C. A.—A, 1023.  
Woelm, W. C.—L, 2071.  
    ELLSWORTH—Pierce Co.  
Baker, Arthur J.—L, 1538.  
Moody, John L.—R, 230.  
Muggah, Chas. L.—A, 1016.  
Swahn, Adolph—L, 1394.  
Window A. J.—R, 13.  
    ELROY—Juneau Co.  
Dix, Judson M.—L, 1124.  
Wrightsman, Jas. W.—R, 26.  
    ETTRICK—Trempealeau Co.  
Cance, James E.—A, 413.  
    EUREKA—Winnebago Co.  
Chapelle, Lester E.—R, 119.  
    EVANSVILLE—Rock Co.  
Biglow, Fannie E.—L, 2097.  
Crow, Frank M.—L, 1086.  
Evans, J. M.—R, 631.  
Evans, J. M. Jr.—L, 1059.  
Race, Warren G.—A, 216.  
Van Wart, L.—L, 1653.

- EXCELSIOR—Richland Co.  
 Harvey, Seba—L, 2172.
- FAIRCHILD—Eau Claire Co.  
 Arnold, R. E.—M, 65.
- FALL RIVER—Columbia Co.  
 Hansen, M. J.—A, 904.  
 Haskin, J. H.—M, 62.
- FENNIMORE—Grant Co.  
 Farnham, A.—R, 924.  
 Farnham, J. A.—R, 923.  
 Niehaus, Chas. J.—L, 1876.  
 Stephens, H. E.—L, 2187.
- FLORENCE—Florence Co.  
 Penberthy, J. S.—R, 682.  
 Rowe, C. E.—L, 2066.
- FOND DU LAC—Fond du Lac Co.  
 Breed, Geo. N.—R, 215.  
 Breister, Wm. W.—L, 1865.  
 Breitenstein, W. R.—R, 908.  
 Buchholz, Benno—R, 514.  
 Dana, Jas. T.—R, 680.  
 Finley, Chas. H.—L, 2217.  
 Geisse, C. F. W.—L, 1351.  
 Givens, Frank M.—R, 717.  
 Huber, Edw. J.—L, 1677.  
 Huber, J. C.—R, 515.  
 Joslyn, A. W.—A, 1000.  
 Koepenick, J. E.—L, 1573.  
 Krumme, F. O.—A, 1001.  
 Krumme, S. A.—L, 2181.  
 Masliko, F. O.—A, 417.  
 McDougall, G. T.—L, 1804.  
 Mitchell, Jos.—R, 550.  
 Pfeil, Anton—R, 512.  
 Plank, Wm. R.—L, 1666.  
 Pritchard, T. E.—L, 1738.  
 Reives, John E.—R, 714.  
 Reives, W. H.—R, 713.  
 Remington, L. J.—L, 976.  
 Richter, A. E.—R, 659.  
 Sallade, W. A.—R, 750.  
 Schleyer, J. W.—L, 2232.  
 Stevens, C. H.—A, 1032.  
 Stiles, S. B.—R, 716.  
 Worm, Geo. J.—L, 2165.
- FOOTVILLE—Rock Co.  
 Reed, Geo. H.—L, 1372.
- FORT ATKINSON—Jefferson Co.  
 Banks, Chas. H.—R, 42.  
 Curtis, S. S.—A, 121.  
 Dexheimer, G. W.—L, 1842.  
 Dexheimer, H. J.—R, 416.  
 Foote, Asa—R, 852.  
 Gates, Judson, W.—A, 889.  
 Sheldon, E. E.—R, 547.  
 Walker, F. G.—L, 1285.
- FOUNTAIN CITY—Buffalo County.  
 Fugina, Ed. C.—L, 1894.  
 Reinhardt, Paul J.—L, 1676.  
 Voegeli, Fred.—L, 2111.
- FOX LAKE—Dodge Co.  
 Lueck, G. W.—L, 1204.
- Marrow, Luke E.—A, 478.  
 Potts, A. H.—R, 287.  
 Roberts, Geo. S.—L, 1724.
- FREMONT—Waupaca Co.  
 Kinsman, Jane C.—R, 503.
- FRIENDSHIP—Adams Co.  
 Frederick, Harry H. F.—L, 1315.
- GALESVILLE—Trempealeau Co.  
 Fiedler, F. H.—L, 2168.  
 Holmberg, G.—R, 710.  
 Mailer, W. P.—L, 1586.  
 Scarseth, A. J.—R, 816.
- GENOA JUNCTION—Walworth Co.  
 Lisle, H. C.—L, 2116.
- GILMANTOWN—Buffalo Co.  
 Clark, E. B.—M, 43.
- GRATIOT—La Fayette Co.  
 Marriott, John—R, 123.
- GRAND RAPIDS—Wood Co.  
 Church, Samuel—L, 1892.  
 Daly, John E.—L, 1496.  
 Hill, Geo. M.—R, 270.  
 Marquardt, R. E.—A, 990.  
 Otto, August C.—L, 1843.  
 Ploss, D. F.—L, 2170.  
 Schultz, E. L.—A, 1062.  
 Scott, C. W.—A, 448.  
 Steib, Frank L.—L, 2079.  
 Voss, H. H.—L, 1117.
- GREENWOOD—Clark Co.  
 Kristiansen, A.—L, 2243.  
 Schindler, L. B.—L, 1512.

- GRANTSBURG—Burnette Co.  
Lonergan, M. D.—L, 1771.  
Olsen, Thorsten—M, 77.  
Unseth, N. C.—L, 2064.
- GREEN BAY—Brown Co.  
Bliedung, C. W.—R, 79.  
Boulet, Wm. J.—L, 1741.  
Cauwenbergh, G.—L, 2121.  
Cauwenbergh, Jos.—L, 1328.  
Davreux, L. F.—L, 2213.  
Dividson, F. E.—L, 2089.  
Flatley, Wm. E.—L, 1374.  
Francar, Emile—L, 2082.  
Hannon, Felix—L, 957.  
Lecomte, Chas.—L, 1362.  
Luckenbach, W.—L, 1603.  
Pigeon, Frank J.—L, 2088.  
Popp, G. G.—L, 1542.  
Rather, W. A.—L, 2087.  
Robinson, John—L, 281.  
Schroeder, Chas. W.—L, 1424.  
Schultz, Oscar—L, 2061.  
Soquet, Raphael—L, 1227.  
Tiernan, James—L, 1378.  
Williams, T. S.—A, 1132.
- GLENWOOD—St. Croix Co.  
Allen, Fred H.—L, 1958.  
Follansbee, O. S.—L, 1941.
- GLIDDEN—Ashland Co.  
Haight, Geo. W.—A, 1026.
- HAMMOND—St. Croix Co.  
Grinnell, B. E.—R, 812.
- HANCOCK—Waushara Co.  
Hales, B. F.—A, 1033.  
Hales, B. L.—R, 206.  
Plank, M.—A, 835.  
Thompson, Thos. L.—L, 1072.
- HARTFORD—Washington Co.  
Nanscawen, R. H.—R, 767.  
Schmidt, W. B.—L, 1939.  
Sherman, John H.—L, 1065.
- HARTLAND—Waushara Co.  
Arey, Mrs. Gladys C.—L, 1908.  
Skinner, C. M.—L, 1909.
- HAYWARD—Sawyer Co.  
Billington, D. C.—  
Hanson, J. H.—
- Nilson, C. E.—L, 2219.  
Roebuck, E. E.—L, 2240.  
Trowbridge, J. B.—M, 20.
- HAZEL GREEN—Grant Co.  
Mill, Geo.—R, 214.  
Williams, Edw.—L, 1693.
- HEBRON—Jefferson Co.  
Palmer, H. L.—L, 1594.
- HILLSBOROUGH—Vernon Co.  
Germann, A. F.—A, 720.  
Pinch, F. I.—M, 76.  
Richards, R.—L, 2100.
- HIXTON—Jackson Co.  
Rainey, C. F.—A, 985.
- HOLLANDALE—Iowa Co.  
McDonald, H. F.—L, 1715.  
Parks, J. L.—A, 407.
- HOLMEN—La Crosse Co.  
Sjolander, C. A.—R, 587.
- HORICON—Dodge Co.  
Bancroft, C. F.—L, 1462.  
Herker, R. W.—A, 284.  
Koerner, Geo. W.—L, 2189.  
Koerner, Harry—A, 971.  
Schumacher, H.—
- HORTONVILLE—Outagamie Co.  
Gansen, Albert—A, 303.  
Rideout, A. F.—L, 799.  
Rideout, M.—L, 2141.
- HUDSON—St. Croix Co.  
Boyden, P. Q.—R, 20.  
Danielson, C. O.—L, 2241.  
Danielson, F. G.—L, 2239.  
Frees, C. H.—L, 2233.  
Gatchell, E. E.—L, 1050.  
Heinzel, Henry—L, 1591.  
McDermott, S. T.—A, 523.  
Micklesen, H. C.—L, 1383.  
Moore, Thos. J.—A, 906.
- HUMBIRD—Clark Co.  
Schumacher, D. A.—L, 1557.
- HURLEY—Ashland Co.  
Marks, A. F.—L, 2081.  
Whitman, A. C.—L, 1215.
- HUSTISFORD—Dodge Co.  
Koebernck, W. E.—L, 2192.  
Rex, Chas. H.—L, 1312.  
Rex, Henry—R, 128.

- INDEPENDENCE—Trempealeau Co.  
 Lorch, Geo. G.—L, 1873.  
 Lorch, Laura M.—L, 1932.  
 IOLA—Waupaca Co.  
 Dale, Geo.—M, 84.  
 Smith, E. W.—A, 744.
- IRON RIVER—Bayfield Co.  
 Miles, Alva H.—L, 1952.
- IRONTON—Sauk Co.  
 Fitzgerald, J. R.—R, 30.
- IRVING—Jackson Co.  
 Davis, Margaret E.—R, 690.
- JANESVILLE—Rock Co.  
 Baker, Jos. P.—R, 469.  
 Baumann, J. F.—L, 1818.  
 Crouse, F. M.—A, 143.  
 Eldredge, Wm. M.—R, 25.  
 Evenson, Will E.—R, 283.  
 Fletcher, John L.—A, 942.  
 Heimstreet, E. B.—L, 5.  
 Hemming, E. A.—A, 895.  
 Kay, E. M.—A, 1054.  
 King, Geo. E.—L, 1790.  
 McCue, Wm. L.—F, 2144.  
 Palmer, Wm. G.—A, 205.  
 Pfennig, Will M.—L, 1596.  
 Ranous, Harry E.—L, 1789.  
 Sarasy, R. J.—L, 1978.  
 Schmidley, L. E.—A, 964.  
 Scott, Jas. W.—A, 802.  
 Sherer, Will T.—L, 1544.  
 Smith, E. O.—L, 1236.  
 Smith, Otto E.—L, 1977.  
 Stevens, Chas. D.—R, 275.  
 Van Dyke, L. S.—A, 1074.  
 Van Valen, D.—R, 813.  
 Wetmore, F. S.—A, 1022.  
 White, H. Kirk—L, 1934.  
 Winslow, L. B. T.—R, 820.  
 Yates, Chas. F.—R, 144.
- JEFFERSON—Jefferson Co.  
 Bechaud, A. R.—R, 258.  
 Bechaud, R. A.—A, 1100.  
 Pope, Chas. J.—L, 1820.  
 Snyder, F. L.—L, 2210.
- JOHNSON'S CREEK—Jefferson Co.  
 Stempel, F. E.—L, 2204.
- JUDA—Green Co.  
 Moldenhauer, W. F.—R, 782.
- JUNEAU—Dodge Co.  
 Haughton, L. E.—R, 171.  
 Melzner, —L,  
 Wendt, F. Jr.—L, 1863.
- KAUKAUNA—Outagamie Co.  
 Charlesworth, F. M.—R, 525.
- Ihde, Emil—A, 988.  
 Kellogg, T. M.—R, 920.  
 Kowalke, E. F.—A, 1088.  
 Mayer, Edw. A.—L, 1764.
- Tanner, H. B.—
- KENOSHA—Kenosha Co.  
 Cameron, G. L.—L, 1903.
- Dickhaut, Fred A.—L, 2019.
- Hackley, L. E.—A, 897.
- Hackley, Wm. L.—L, 1009.
- Hollister, E. H.—R, 772.
- Hurd, Chas. H.—R, 626.
- Lamb, Wm. S.—L, 1017.
- Lewis, John W.—A, 602.
- Sullivan, Jos. D.—A, 1013.
- Tanner, H. E.—L, 1706.
- Woodward, O. H.—L, 1174.
- KENDALL—Monroe Co.  
 Cutland, Wm. T.—R, 21.
- Dunlap, R. B.—R, 723.
- Gammon, Jas. H.—A, 915.
- KEWASKUM—Washington Co.  
 Lambeck, F. J.—L, 1776.
- Miller, Chas.—R, 121.
- KEWAUNEE—Kewaunee Co.  
 Hofert, H. C.—L, 1837.
- Luckenbach, S. F.—L, 1606.
- KIEL—Manitowoc Co.  
 Kabel, P. E.—L, 2099.
- Schroeder, Bertha—R, 264.
- KILBOURN CITY—Columbia Co.  
 Bauer, Herbert A.—L, 2091.
- Jenkins, Geo. W.—R, 480.
- Johnson, Alva A.—A, 983.
- McNeel, Walton—R, 246.
- O'Neil, D. T.—L, 2057.
- KINGSTON—Green Lake Co.  
 Volkmann, Henry—M, 73.

KNAPP—Dunn Co.  
Townsend, Chas.—M, 58.  
LA CROSSE—La Crosse Co.  
Bechmann, C. R.—L, 450.  
Bell, Robert M.—L, 1501.  
Bellerue, Albert—L, 502.  
Bellerue, E. L, 1006.  
Berg, Adolph E.—L, 2147.  
Beyschlag, Chas.—L, 1005.  
Block, J. Arthur—L, 1716.  
Brakke, J.—A, 1071.  
Collier, Frank W.—L, 1725.  
Draper, W. C.—L, 1055.  
Erhart, Oscar T.—L, 1623.  
Gorder, Christian—L, 949.  
Hebberd, E. S.—L, 1777.  
Heyerdahl, Albert—R, 778.  
Houck, Oscar—L, 1186.  
Howard, Edwin—R, 192.  
Jacobus, Philip—L, 1746.  
Kindley, John—L, 1578.  
Koenig, C. F.—L, 1604.  
Lang, Mary M., Sister—L, 1240.  
Lien, E. L.—L, 544.  
Lund, N. T.—A, 1029.  
Mariner, Geo. E.—R, 94.  
McCord, Jas.—R, 100.  
Olson, Marius—A, 944.  
Patridge, H. L.—L, 1211.  
Pfiffner, Albert—R, 185.  
Runckel, C. F.—L, 2127.  
Sieger, Jos. M.—L, 2126.  
Simon, Mathias—L, 516.  
Spence, Thos. H.—L, 1.  
Wagner, A. J.—L, 2143.  
Young, Edward M.—L, 2118.  
LA FARGE—Vernon Co.  
Gaines, E. E.—L, 1339.  
Shambaugh, A.—R, 662.  
Yeomans, C. E.—A, 319.  
LAKE GENEVA—Walworth Co.  
Arnold, R. B.—L, 403.  
Dukelow, A. C.—A, 279.  
Hammersley, C. H.—R, 380.  
Hammersley, W. H.—R, 381.  
Hammersley, W. H., Jr.—L, 1218.  
Tanck, Fred G—L, 1732.

LAKE MILLS—Jefferson Co.  
Behnke, C. F.—A, 1067.  
Engsberg, Conrad—L, 870.  
Heimstreet, Chas. S.—L, 1612.  
Wegemann, A. H.—R, 972.  
Woelffer, V. C.—A, 987.  
LAKE NEBAGEMAIN—Douglas Co.  
Smith, Edw. A.—L, 1980.  
LANCASTER—Grant Co.  
Bennett, Jos. T—L, 1185.  
Hassell, S. E.—R, 485.  
Hatch, Jas. D.—L, 1971.  
Whitmore, J. C.—A, 993.  
LINDEN—Iowa Co.  
Correll, W. G.—L, 1947.  
LINDON STATION—Juneau Co.  
Bryant, Jesse R.—L, 1355.  
LIVINGSTON—Grant Co.  
Cocklin, J. S.—M, 16.  
LODI—Columbia Co.  
Collins, J. F.—  
Gordon, Geo. O.—L, 1213.  
Hinds, A. H.—R, 193.  
McGinnity, T. A.—A, 963.  
Spence, R. L.—R, 68.  
LONE ROCK—Richland Co.  
Brimer, J. N.—R, 686.  
LOWELL—Dodge Co.  
Devlin, John A.—A, 934.  
LOYAL—Clark Co.  
Fenelon, M. P.—L, 1841.  
Hals, O. C.—L, 943.  
Mulvey, James—A, 861.  
LYONS—Walworth Co.  
Reeve, G. G.—R, 31.  
MADISON—Dane Co.  
Bernhard, C. H.—L, 903.  
Clark, John H.—R, 22.  
Cramton, U. J.—A, 920.  
Denniston, R. H.—L, 2003.  
Fett, Geo. H.—L, 1995.  
Glenz, A. H.—L, 1998.  
Haley, John C.—L, 1289.  
Hansen, J. H.—  
Hendricks, W. E.—A, 1094.  
Hicks, J. W.—L, 1228.  
Hollister, A. H.—R, 2.

- Krehl, August W.—L, 1599.  
 Kundert, A.—L, 2148.  
 Lewis, Henry—L, 1098.  
 Mayers, A. A.—R, 365.  
 Menges, A. F.—L, 1129.  
 Naffz, Chas. H.—R, 567.  
 Ott, Harlow S.—L, 1381.  
 Pardee, A. A.—R, 581.  
 Richtmann, W. O.—L, 1800.  
 Seltzer, Otto C.—L, 2059.  
 Sexton, Jas. M.—L, 1839.  
 Sumner, Edwin—R, 427.  
 Sumner, Louis D.—L, 1870.  
 Swain, Frank—A, 1.  
 Udell, A. P.—A, 919.  
 Vivian, Alfred—L, 1765.  
 Woltersdorf, A. H.—L, 2245.
- MAIDEN ROCK—Pierce Co.
- Gearing, W. F.—A, 169.  
 Nichols, G. B.—L, 1291.
- MANAWA—Waupaca Co.
- Bullock, J. C. F.—L, 1499.  
 Higgins, Libbie—L, 1933.  
 MacQueen, Alex—L, 2107.
- MANITOWOC—Manitowoc Co.
- Alter, O. A.—R, 130.  
 Barnstein, C.—  
 Barnstein, J. E.—L, 1060.  
 Buerstatte, F. C.—L, 90.  
 Buerstatte, R. T.—L, 2139.  
 Groffmann, Chas. A.—L, 1734.  
 Hinrichs, F.—R, 50.  
 Hinrichs, Henry—R, 9.  
 Klingholz, Wm. R.—A, 996.  
 Knutzen, Knud O.—L, 1198.  
 Kostlevy, Anton—L, 1468.  
 Mueller, Fred A.—A, 827.  
 Reitz, A.—  
 Roberts, John A.—R, 313.  
 Schmidt, F. C.—L, 2290.  
 Stock, Emil F.—R, 490.
- MARATHON CITY—Marathon Co.
- Eisold, F. H.—A, 1078.  
 Taugher, P. J.—  
 MARINETTE—Marinette Co.
- Campbell, Thos. H.—L, 2075.  
 Hulbert, H. L.—L, 1866.
- John, D. W.—R, 618.  
 Lemcke, H. G.—L, 1649.  
 McDonald, R. A.—L, 2222.  
 McRaith, M. J., Jr.—L, 2033.  
 Nelson, Oscar—L, 1651.  
 Petersen, J. S.—A, 1122.  
 Raiche, A. G.—A, 1123.  
 Raiche, Wm. J.—L, 1406.  
 Steinle, Wm.—L, 1388.  
 Suits, Emma M—L, 1915.  
 Thompson, H. G.—L, 948.
- MARION—Waupaca Co.
- Gansen, Wm.—A, 204.
- MARKESAN—Green Lake Co.
- Atkinson, Geo. E.—A, 547.  
 Atkinson, Thos., Jr.—R, 531.  
 Worm, G. A.—L, 1680.
- MARSHALL—Dane Co.
- Kelly, Lorin F.—A, 332.
- MARSHFIELD—Wood Co.
- Budge, W. H.—L, 1010.  
 Horn, Henry—L, 1521.  
 Look, Otto—L, 1816.  
 Sexton, W. A.—L, 425.  
 Van Dusen, C. A.—R, 937.  
 Wing, F. B.—L, 2074.  
 Yahn, C. S.—L, 2185.
- MARTEL—Pierce Co.
- Forsyth, A. P.—R, 894.  
 Swedenburg, C. J.—A, 1044.
- MATTOON—Shawano Co.
- Paul, Edw. C.—L, 2056.
- MAUSTON—Juneau Co.
- Comer, Peter J.—L, 1532.  
 Grimmer, F. E.—R, 438.  
 Grimmer, F. E., Jr.—L, 1167.  
 Grimmer, W. A.—L, 1087.  
 Grote, Emily L.—L, 1618.  
 Shepard, Alfred C.—A, 998.
- MAYVILLE—Dodge Co.
- Bruder, Otto E.—L, 1904.  
 Kospsel, Aug.—  
 Sauerhering, Edw.—L, 1245.  
 Sauerhering, R.—R, 120.  
 Schoen, A. F.—R, 492.
- MAZOMANIE—Dane Co.
- Daubner, F. F.—L, 1115.  
 Halsey, R. I.—L, 1692.

- MEDFORD—Taylor Co.  
Benn, Aug. J. E.—L, 1988.  
Elvis, Geo. H.—A, 729.  
Suits, C. G.—L, 951.  
Tonne, Wm. H.—A, 277.
- MELLEN—Ashland Co.  
Dewey, A. C.—L, 2224.
- MELROSE—Jackson Co.  
Gullickson, T.—L, 2093.
- MENASHA—Winnebago Co.  
Griswold, E. W.—L, 576.
- Knorr, R. E.—L, 1369.
- Rosch, John—L, 1051.
- Rupp, John—L, 1624.
- MENDOTA—Dane Co.  
Kretlow, Frank E.—L, 1986.
- MENOMINEE—Dunn Co.  
Becker, Wm. H.—L, 1590.
- Ehrhard, Louis—L, 1671.
- Noer, Olaf—R, 1526.
- Pillsbury, A., Jr.—L, 1014.
- Tonnar, Geo.—R, 75.
- MERRILL—Lincoln Co.  
Dorn, Byron—A, 166.
- Drinker, John T.—R, 962.
- Fowler, Chas. F.—L, 1872.
- Hillyer, F. H.—R, 207.
- Inman, Chas.—R, 974.
- Kamps, H. J.—L, 1927.
- Karstaedt, A.—A, 940.
- King, E. S.—R, 308.
- Kluetz, Herman E.—L, 2068.
- Molzahn, John—L, 1583.
- Nintzel, A. R.—L, 1719.
- Norway, M. S.—L, 2069.
- Oleshak, R.—L, 1809.
- Walsh, Chas. C.—L, 1208.
- Walsh, Phebe E.—L, 1327.
- MERRILLAN—Jackson Co.  
Hathaway, W. R.—R, 711.
- Merrill, Oscar H.—R, 783.
- MILTON—Rock Co.  
Clarke, W. P.—R, 6.
- MILTON JUNCTION—Rock Co.  
Burdick, R. T.—R, 139.
- Gates, W. H.—L, 537.
- Hinkley, J. P.—  
Thorpe, Will R.—L, 1819.
- MILWAUKEE—Milwaukee Co.  
Abbott, Clara Mae—L, 1601.  
365 East Water St.
- Ahnert, Paul—L, 1769.
- Albers, Chas. R.—A, 1012.
- Allcott, Chas. F.—A, 42.
- Baldauf, Geo. L.—L, 1183.  
3026 North Ave.
- Banaszynski, Jos. C.—L, 1628.
- Barnes, Wm. H.—A, 643.
- Barr, Wm. H.—R, 311.  
147 Oneida St.
- Bartel, Max—L, 995.  
1130 Vliet St.
- Baumbach, C. A.—R, 611.  
1159 Tenth St.
- Baumgarth, O. H.—A, 467.
- Becker, John—A, 968.
- Behnke, F. P.—L, 1878.
- Bender, Wm.—R, 72.  
874 Greenfield Ave.
- Benz, W. M.—L, 2159.
- Biebeshiemer, A. W.—L, 1814.  
309 Ellen St.
- Biedermann, Theo.—L, 2130.
- Billerbeck, Clem. J.—L, 1722.  
1490 Green Bay Ave.
- Binzel, Alex.—A, 674.
- Blanchard, H. T.—L, 1856.  
2823 Lisbon Ave.
- Bleyer, Theo.—L, 1439.  
695 12th St.
- Boettcher, Henry—L, 900.  
902 North Ave.
- Bonesteel, P. S.—L, 1791.
- Brain, L. J.—A, 2.
- Braun, Frank—L, 1721.
- Brennecke, Arthur—A, 496.
- Brin, Joseph—L, 1869.
- Brown, A.—L, 1080.  
630 Grand Ave.
- Buckley, F. J.—A, 338.
- Burger, C. F., Jr.—L, 1256.  
8th & Clybourn Sts.
- Chandler, Wm. D.—L, 1515.
- Clausen, Chr.  
402 Grove St.
- Cohn, A. H.—L, 1216.  
830 Walnut St..

- Conrad, Carl J.—L, 1412.  
934 Teutonia Ave.
- Courath, Adam—L, 4.  
630 Chestnut St.
- Cooper, Frank C.—A, 1136.  
11th & Wells St.
- Cornwell, E. H.—L, 1581.
- Cox, A. H.  
2009 Vliet St.
- Czerwinski, A. H.—L, 1366.  
475 Mitchell St.
- Czerwinski, S. E.—L, 1953.  
839 Eight Ave.
- Dadd, R. M.—R, 183.  
221 Grand Ave.
- Day, Wm. G.—L, 1969.
- de Harde, F. A. D.—L, 1935.  
116 Mason St.
- De Nosaguo, S.—A, 1038.  
4th & Chestnut St.
- De Swarte, Peter B.—L, 1549.  
27th & Vliet Sts.
- Dick, Wm. H.—L, 1667.  
1317 Forest Home Ave.
- Dickinson, C. E.—R, 89.
- Dietz, Emil—L, 993.  
702 Germania St.
- Dietz, Mathias—L, 1269.  
24th & Vliet Sts.
- Drake, J. R.—R, 302  
365 East Water St.
- Drake, H. T.—R, 303.  
365 East Water St.
- Drake, H. W.—R, 304.  
167 Reed St.
- Drake, L. M.—L, 1122.  
365 E. Water St.
- Drozmakiewicz, F. L. E.—A, 1121.
- Ebert, C. F.—L, 1807.
- Eckstein, S. A.—R, 180.  
618 1st St.
- Emmerich, H.—L, 1153.  
898 Third St.
- Enters, Paul—A, 801.
- Esau, Fred.—L, 359.  
479 Reed St.
- Esser, F. H. J.—L, 2045.  
Booth & Clark St.
- Esser, Theo. A.—A, 1036.
- Frank, Herman O.—L, 1138.  
416 E. North Ave.
- Frank, Otto—A, 791.
- Franzel, J. E.—L, 1979.
- Freytag, Ernest F.—L, 1923.  
365 E. Water St.
- Garrets, F.  
1130 State St.
- Gebhart, Elmer G.—A, 1098.
- Gieseler, E.—L, 307.  
763 Third St.
- Glysz, Peter—A, 1049.
- Goes, G.  
2402 State St.
- Goes, Wm. A.—L, 594.  
11th & Cherry Sts.
- Goetz, Fred E. R.—L, 1966.  
2629 Grand Ave.
- Goetz, Max J.—L, 1177  
26 Grand Ave.
- Graf, Otto B—A, 682.
- Greenwood, T. E.—L, 1881.  
288 24th St.
- Grieb, F. J.—L, 1112.  
851 Racine St.
- Grimes, F. H.—L, 2132.
- Grings, Henry—A, 656.
- Gutenkunst, E. C.—L, 2202.
- Hackendahl, H. H.—R, 789.  
480 National Ave.
- Hackendahl, Otto—L, 1610.  
607 Jackson St.
- Haise, A. E.—L, 2176.
- Hallmann, O. E.—A, 820.
- Halm, Edw.—L, 1686.  
530 Chestnut St.
- Hamp, G. F.—A, 441.
- Hantke, Otto E.—A, 1051.
- Hasenmiller, J. J.—L, 1480.  
7th cor. Harmon Sts.
- Heitmann, Wm.—L, 1859.  
16th cor. National Ave.
- Hempe, Edw. A.—L, 1595.  
374 Mitchell St.
- Hiecke, Wm.—L, 1253.  
11th & Wells Sts.
- Hilfert, H. O.—L, 1698.  
101 Grand Ave.
- Hillmantel, Henry—L, 1730.  
312 Chestnut St.
- Hinz, Richard C.—L, 1641.  
24th & Fond du Lac Ave.

- Hodann, Albert—A, 951.  
Holden, Justin—R, 34.  
    73 35th St.  
Hopp, A.—L, 874.  
    519 Twelfth St.  
Hoyer, Arthur—A, 1060.  
Huennekens, J. A. C.—A, 789.  
Huffschmidt, F.—L, 1030.  
    1104 Chestnut St.  
Ihk, Otto W.—A, 752.  
Illian, Robert P.—A, 1048.  
    12th cor. Vliet St.  
Janssen, Jacob S.—L, 1354.  
    Wisconsin cor. Milwaukee Sts.  
Jeske, Geo. C.—A, 705.  
John, Fedor—L, 2131.  
Jones, Alfred J.—L, 1857.  
    17th cor. National Ave.  
Jones, Daniel R.—R, 184.  
    408 Milwaukee St.  
Kading, Louis—L, 2128.  
Kaiser, Chas. J.—A, 621.  
Kaiser, Wm.—L, 979.  
    862 Kinnickinnick Ave.  
Kauders, Julius C.—L, 1642.  
    1264 Kinnickinnick Ave.  
Kemp, Fred W.—L, 1810.  
    35th St. & Lisbon Ave.  
Kesten, Geo. H.—L, 1196.  
    502 State St.  
Kettler, Ernest—L, 1964.  
    Farwell cor. Brady St.  
Kettler, E., Jr.—L, 1194.  
    Brady & Farwell Ave.  
Kettler, Walter E.—815.  
Kienth, A. E.—A, 1099.  
    840 Mitchell St.  
Kienth, John—R, 322.  
    840 Mitchell St.  
Kissinger, C. A.—A, 945.  
Kitzerow, Alvin—A, 703.  
Kleinhans, M. A.—L, 1891.  
    13th St.  
Klemm, Louis F.—L, 1811.  
Koch, Arthur F.—L, 2152.  
    12th cor. Clyburne St.  
Koerner, Christian—L, 1759.  
    27th St. & North Ave.  
Koethe, Richard—L, 2016.  
    24th cor. Walnut St.  
Kohorn, H. B.—A, 1108.  
Kopf, Hugo S.—L, 1615.  
    Juneau & Market Sts.  
Kossat, Fred.—L, 1165.  
    935 Greenfield Ave.  
Koszewski, S. W.—A, 1013.  
Krause, Chas. H.—L, 1344.  
    12th & Vliet Sts.  
Krembs, Ernest—R, 401.  
    508 First Ave.  
Krembs, Ernest M.—L, 1772.  
    11th Ave. cor. Washington.  
Kremers, Geo. A.—L, 1965.  
    1099 Third St.  
Kressin, Louis—L, 1635.  
    5th & Chestnut Sts.  
Krientz, Alfred J.—L, 2000.  
Kropf, O. A.—L, 1160.  
    479 E. Water St.  
Kropp, Wm—R, 565.  
    722 Island Ave.  
Kuhnmuench, F. J.—A, 426.  
Kurtz, Wm.—A, 699.  
Laabs, Otto C.—L, 1668.  
    20th & Vliet Sts.  
Ladwig, F. F.—R, 338.  
Lambeck, Herman—L, 1284.  
    19th & Walnut Sts.  
Lambeck, W. F.—L, 2129.  
    19th cor. Walnut St.  
Lampertine, Wm. H.—A, 854.  
Lau, Louis G.—L, 1968.  
Lederer, Chas. F.—A, 967.  
Liepe, Carl—L, 1614.  
    1412 Green Bay Ave.  
Linde, Frank C.—A, 970.  
Lobedan, Emil—A, 1037.  
Loepfe, Alvin—L, 1364.  
    Biddle cor. East Water St.  
Loew, E. J.—L, 2236.  
Loppnow, W. F.—A, 949.  
Lorentz, Geo. L. W.—L, 1395.  
    22nd Ave. & Greenfield St.  
Lorenz, Wm.  
    1053 Greenfield Ave.  
Lotz, Louis—L, 946.  
    312 Chestnut St.  
Ludmann, Erwin—A, 1064.  
Luebke, Arthur J.—L, 1858.  
    826 Center St.  
Luehring, Geo. F.—L, 1890.

- Luethe, A.—L, 1095.  
357 National Ave.
- Maas, John—L, 1259.  
6th & Wells Sts.
- Mack, L. G. J.—L, 2048.  
Kinnicinnic Ave.
- Marlewski, S. T.—L, 1832.  
1st Ave. cor. Lincoln.
- Martens, A. G.—L, 2103.
- Martens, J. A.—L, 1274.  
North Ave. & Holton St.
- Matthieson, Geo. J.—L, 1484.
- Maves, Edward—A, 882.
- McMillan, M. W.—L, 1398.
- Meadows, S. H.—L, 872.  
198 Biddle St.
- Meibohm, Henry—R, 150.  
572 National Ave.
- Meier, Albert O.—L, 1925.
- Meier, P. H.  
2101 Center St.
- Melcher, Wm. A.—L, 1519.
- Menzel, Alfred F. B.—A, 881.
- Messman, Wm. F.—L, 1506.
- Meyer, Hans—A, 804.
- Meyer, John C.—A, 948.
- Mieding, A. E.—L, 1308.  
17th & State Sts.
- Mierswa, Julius T.—A, 805.
- Mikitynski, M. M.—A, 946.
- Miller J. C.—L, 1888.  
283 27th St.
- Mitchell, A. S.—L, 1318.  
436 Milwaukee St.
- Moatz, Carl—A, 969.
- Mohrhusen, W. T.—A, 1101.
- Mueller, Carl T.—L, 2154.  
3rd cor. Sherman St.
- Mueller, E.  
283 27th St.
- Neelson, Herman—L, 1967.  
1254 Kinnickinnick Ave.
- Neubauer John—A, 1039
- Neumeister, A. G.—L, 2053.  
14th cor. State St.
- Otten, Jos. G.—A, 888.
- Owens, David—L, 1937.
- Patterson, John A.—A, 1102.
- Petersen, Wm.—L, 2017.
- Phelps, Edw. G.—A, 1120.  
565 3rd St.
- Piasecki, S. E.—A, 800.
- Piszczeck, Frank J.—L, 2046.
- Poenisch, Oswald—L, 1773.
- Possehl, John J.—L, 1827.
- Raben, C. Emil—L, 1357.  
1st Ave. cor. National Ave.
- Raeuber, Edw. G.—L, 1178.  
44 Johnson St.
- Rakowski, S. A.—A, 952.
- Rauschenberger, J. F.—L, 1200  
1431 North Ave.
- Regan, Eugene—A, 626.
- Reichenbach, Alvin—A, 706.
- Reinoldt, H. O.—L, 1254.  
27th & Lisbon Sts.
- Rheineck, Wm. M.—L, 2039.  
1039 Third St.
- Richardson, A. B.—R, 305.  
404 Grove St.
- Riehl, Fred W.—L, 1494.  
31st Ave. cor. National.
- Riesen, W. P.—L, 2200.
- Ritmeier, Wm—R, 404.  
328 Grove St.
- Rock, Arthur A —A, 788.
- Roemer, J. F.  
415 Grand Ave.
- Roemheld, H. F. W.—L, 1446.  
11th & Burleigh Sts.
- Roerig, Wm.—L, 1158.  
701 Center St.
- Rogers, Claude L.—L, 1792.
- Roller, W. R.—L, 1826.
- Rossbach, J.  
545 E. Water St.
- Roth, E. G.—L, 1249.  
681 28th St.
- Ruenzel, H. C.—L, 1146.  
750 Third St.
- Rupp, Louis—L, 899.  
324 Wells St.
- Sauerberg, Otto F.—A, 1140.
- Schacht, A. R.  
612 Mitchell St.
- Schaus, Robert E.—L, 1902.  
1620 Chestnut St.
- Schils, W. J.—A, 1085.
- Schloemer Edw. W.—A, 869.

- Schmidt, Felix—L, 1705.  
Schmit, Louis—L, 1547.  
              602 Walnut St.  
Schmitt, Jos. H.—L, 2114.  
              1030 Muskego Ave.  
Schmitz, A. C.—L, 2127.  
              257 Grove St.  
Schultz, J. H. A.—L, 1737  
              Teutonia Ave. & Centre St.  
Schneider, Wm.—L, 1304.  
              1620 Chestnut St.  
Schoenike, E. B.—L, 1088.  
              396 Sixth Ave.  
Schorse, G. O.—L, 1527.  
              327 3rd St.  
Schorse, Otto—R, 422.  
              327 Third St.  
Schowalter, Jacob—A, 763.  
              Brady cor. Farwell Ave.  
Schram, John—A, 937.  
Schranek, H. C—R, 343.  
Schulz, E.  
              1535 Fond du Lac Ave.  
Schulz, H. L.—L, 501.  
              1431 Vliet St.  
Schulz, J. H. A.—L, 1247.  
              1038 Teutonia Ave.  
Schumaker, H. A.—A, 760.  
Schwanberg, Paul F.—A, 331.  
Schwandt, S. A.—A, 950.  
Schwarz, H. F.—L, 2101.  
              Murray cor. Greenwich St.  
Schwarz, Julius F.—A, 1095.  
Segall, Wm.—L, 1101.  
              332 Chestnut St.  
Shead, A. A.—L, 1133.  
              415 Grand Ave.  
Showalter, E. A.—L, 2102.  
              221 Grand Ave.  
Silber, A.—L, 1785.  
Silvernale, R. C.—A, 1117.  
Sommer, R. E.—L, 1360.  
              c. o. Milwaukee Medical College.  
Spiegel A.—R, 1188.  
              101 Grand Ave.  
Stamm, A. W.—A, 1052.  
Stangel, J. A.  
              396 E. North Ave.  
Steiner, Emil—A, 938.  
Steinert, H. F.—L, 2094.  
              112 Teutonia Ave.  
Stetter, Frank X.—A, 683.  
Steuerwald, F. H. W.—A, 1050.  
Stewert, H. F.  
              1112 Teutonia Ave.  
Stilcke, Chas. A.—R, 337.  
              c. o. F. Dohmen Co.  
Stocker, Jacob—L, 2134.  
Stoltz, Herman J.—L, 1550.  
              16th & Wells Sts.  
Stoltz, Oscar H.—A, 807.  
Strohmeyer, C. H.—R, 627.  
              563 Third St.  
Strohmeyer, H. L.—R, 628.  
              557 Third St.  
Sykes, H. D.—R, 163.  
              197 Wisconsin St.  
Tarrant, Irving H.—L, 1754.  
              29th & Clybourn Sts.  
Teich, W. E. H.—L, 1540.  
              3rd & Sherman Sts.  
Terhorst, Daniel—L, 1880.  
              Ogden & Van Buren Sts.  
Thatcher, E. S.—L, 2237.  
Thiele, Otto A.—L, 366.  
              287 Third St.  
Thiele, R. C.—L, 1687.  
              287 3rd St.  
Timm, E. W.—L, 1861.  
Tomkiewicz, John W.—L, 1230.  
              452 Mitchell St.  
Tomkiewicz, Anton—L, 1803.  
              547 Lincoln Ave.  
Tracy, John J.—L, 1823.  
Trayser, Harry P.—L, 1495.  
Trayser, Max E.—L, 2133.  
von Trott, August—R, 448.  
              441 E. Water St.  
Uecke, John J.—L, 1920.  
              12th & Garfield Ave.  
Ulrich, Frank X.—L, 1695.  
              488 Lapham St.  
Urban L. C.—L, 1505.  
              647 3rd St.  
Valet, Herman—L, 1232.  
              1218 Fond du Lac Ave.  
Van Ellis, H. M.—L, 1579.  
              744 Forest Home Ave.  
Van Ells, A. J.—L, 2227.  
Vogel, Edw. W.—L, 1536.  
              7th & Grand Ave.  
Vogel, Fred—A, 764.

- Wallschlaeger, W. C.—L, 1531.  
 Wangemann, T. C.—L, 1830.  
 Wartman, J. F. A. C.—L, 2197.  
 Watt, Fred J.—A, 1119.  
 Webb, F. E.—R, 306.  
     365 East Water St.  
 Weber, Ernest J.—A, 868.  
 Wegner, Emil A.—L, 1451.  
     Booth cor. Clark Sts.  
 Wegner, P. G.—L, 2047.  
 Weigle, Geo. J.—L, 1674.  
     21st & Wells Sts.  
 Weiss, Anton—L, 1176.  
     507 Eleventh Ave.  
 Weissenborn, A. C.—L, 1652.  
     12th & Walnut Sts.  
 Werner, Henry C.—L, 1775.  
     507 Sixth Ave.  
 Werner, R. C.—L, 1317.  
     506 6th Ave.  
 West, Roy C.—A, 927.  
 Widule, C.—R, 74.  
     630 Chestnut St.  
 Wiese, R. W.—L, 1461.  
     6th cor. North Ave.  
 Wilke, Arno C.—A, 1118.  
 Wolf, F. G.—L, 1664.  
     1706 Chestnut St.  
 Woodnuth, J. H.—R, 46.  
     1118 Cedar St.  
 Wright, A. T.—R, 182.  
     112 Wisconsin St.  
 Wright Geo. H.—R, 181.  
     112 Wisconsin St.  
 Wright S. J.—R, 249  
     6th & Grand Ave.  
 Wussow, H. F.—A, 762.  
 Young, C. Howle—L, 1963.  
     Ogden & Farwell Ave.  
 Zimmermann, C. O.—L, 1720.  
     MINERAL POINT—Iowa Co.  
 Bliss, Wm. P.—L, 1529.  
 Horn, Geo. W.—L, 1871.  
 McDonald, C. D.—L, 1895.  
 Meserole, Jacob A.—A, 607.  
 Prideaux, W. H.—R, 396.  
 Ruckes, J. C.—L, 1445.  
 Vivian, Fred—L, 1444.
- MINOCQUA—Oneida Co.  
 Kordenat, Geo. H.—L, 1633.  
 Runge, Wm. A.—L, 2055.
- MONDOVI—Buffalo Co.  
 Branstad, A. J.—L, 2040.  
 Constantine, P. A.—L, 1951.  
 Wyman, W. W.—R, 122.
- MONROE—Green Co.  
 Bellows, B. H.—L, 1631.  
 Buggs, E. P.—A, 2214.  
 Darling, F. E.—A, 405.  
 Eley, E. E.—L, 1640.  
 Lichtenwalner, A. F.—R, 632.  
 Lytle, C. A.—R, 916.  
 Sacker, Carrie M.—L, 2149.  
 Trickle, Chas. W.—A, 651.  
 Trukenbrod, W. F.—R, 280.
- MONTELLO—Marquette Co.  
 Bass, Edw. A.—A, 225.  
 Pratt, H. J.—R, 363.  
 Pratt, M. H.—M, 56.
- MONTFORT—Grant Co.  
 Rundlitt, J. R.—R, 780.
- MONTICELLO—Green Co.  
 Van Norman, E. W.—L, 2063.
- MOSINEE—Marathon Co.  
 Blair, C. E.—
- MOUNT HOORB—Dane Co.  
 Evans, Nels C.—A, 267.  
 Helland, G. M.—L, 2122.  
 Rogers, J. Elmer—L, 1799.
- MOUNT STERLING—Crawford Co.  
 Lindstrom, T. G.—L, 1064.
- MUKWONAGO—Waukesha Co.  
 Andrews, L. G.—R, 508.  
 Clohisy, J.—R, 815.  
 Wood, Frank A.—R, 509.
- MUSCODA—Grant Co.  
 Briggs, Henry E.—L, 1983.  
 Jeffries, Wm. H.—R, 331.  
 Dimock, H. A.—L, 2125.
- NECEDAH—Juneau Co.  
 Canfield, Thos. M.—R, 708.  
 Merrill, W. G.—L, 2004.  
 Seaman, Emma J.—L, 1180.  
 Ward, Jennie R.—L, 1278.

- NEENAH—Winnebago Co.  
Barnett, M. E.—L, 1466.  
Elwers, F.—R, 245.  
Haven, Sinar—A, 1146.  
Henry, S. F.—L, 950  
Marsh, Chas. N.—A, 956.  
Marsh, E. B.—R, 415.  
Rather, Oscar A.—L, 1976.  
Sands, C. B.—  
Schroeder, Albert F.—L, 2138.  
Schultz, Emil H.—L, 2081.  
Wilde, F. A. J.—L, 1960.
- NEILLSVILLE—Clark Co.  
Ascott, Geo. W.—L, 1875.  
Sniteman, C. C.—R, 471.  
Sontag, Geo. L.—L, 1456.
- NEKOOSA—Wood Co.  
Lapham, Mrs. A. E.—L, 2112.
- NEOSHO—Dodge Co.  
McCollow, John M.—R, 252.
- NERO—Manitowoc Co.  
Pfunder, F. H.—L, 2251.
- NEWBURG—Washington Co.  
Weber, Herman F.—R, 1528.
- NEW GLARUS—Green Co.  
Godfrey, A. E.—L, 1954.
- Helgeson, Elias J.—A, 925.
- NEW LISBON—Juneau Co.  
Elwell, Youlen—L, 1873.  
Hansen, J. H.—R, 882.  
Nichols, E. B.—R, 797.
- NEW LONDON—Waupaca Co.  
Agnew, F. S.—A, 299.  
Bryant, E. P.—R, 138.  
Discher, H. F.—A, 1061.  
Dukerschein, A. F.—L, 2173.  
Krentzmann, H.—A, 1110.  
Rowe, Thos. D.—L, 1678.  
Trayser, Morton C.—L, 1762.  
Trayser, Walter A.—L, 1523.
- NEW RICHMOND—St. Croix Co.  
Beebe, Walter W.—A, 865.  
Kaye, Evan O.—L, 1662.  
Parden, J. H.—  
Sherman, H. B.—A, 1021.  
Voight, A. H.—A, 2346.  
Webster, E. C.—
- NORTH CAPE—Racine Co.  
Spillum, Geo.—R, 729.
- NORTH CRANDON—Forest Co.  
Masbaum, John—R, 321.
- NORTH FREEDOM—Sauk Co.  
Fischer, Wm.—M, 86.  
Wetmore, N. F.—M, 18.
- NORWALK—Monroe Co.  
Douglas, Mary Vee—A, 1142.
- OAKFIELD—Fond du Lac Co.  
Burus, J. W.—R, 853.  
Burns, Thos.—R, 847.
- OCONOMOWOC—Waukesha Co.  
Baum, Harry C.—L, 1431.  
Bersing, E. E.—A, 1028.  
Brown, F. B.—R, 384.  
Coyle, E. M.—A, 1058.  
Dibble, W. S.—R, 385.  
Kellogg H. L.—A, 1080.  
Lardner, W. F.—L, 1913.  
Lardner, W. L.—R, 296.  
Peters, Henry A.—L, 1729.  
Race, Warren G.—L, 1380.  
Smith, Chas. M.—L, 1739.
- OCONTO—Oconto Co.  
Cole, H. U.—  
Elliot, G. S.—L, 1477.  
Ford, J. L.—R, 956.  
Ford, S. W.—R, 186.  
Germond, Harry J.—L, 1326.  
Luckenbach, A. H.—L, 1074.
- OCONTO FALLS—Oconto Co.  
Sharp, P. H.—L, 1883.  
Stuelke, L. B.—A, 673.
- OGEMA—Price Co.  
Visser, Dr.—
- OMRO—Winnebago Co.  
Kutchin, M. C.—A, 1066.  
Lasher, Geo. C.—R, 349.  
Lloyd, W. R.—L, 2186.  
Parker, Henry—A, 1059.  
Petty, J. C.—L, 1202.
- ONALASKA—La Crosse Co.  
Aldrich, W. H.—L, 1182.
- ONTARIO—Vernon Co.  
Sloggy, Samuel—R, 737.

- ORFORDVILLE—Rock Co.  
 Taylor, Chas.—M, 78.
- OREGON—Dane Co.  
 Bobb, C. L.—L, 2231.  
 Fox, Jos. Jr.—R, 911.  
 Walters, John W.—L, 1851.
- OSCEOLA—Polk Co.  
 Staples, C. W.—R, 285.  
 Staples, F. D.—A, 55.
- OSHKOSH—Winnebago Co.  
 Baldwin, J. P.—A, 1112.  
 Bass Henry—A, 187.  
 Bauman, Geo.—R, 601.  
 Bauman, L. A.—L, 1220.  
 Brennan, John J.—L, 2014  
 Callies, Frank E.—A, 274.  
 Coe, Jas. E.—A, 994.  
 Duescher, A. M.—A, 918.  
 Eilers, G. H.—A, 1004.  
 Froehlich, J. A.—R, 444.  
 Griffiths, Peter A.—R, 160.  
 Hennig, C. H.—A, 1115.  
 Horn, E. A.—L, 1094.  
 Howard, A. Z.—A, 145.  
 Jackson, Fred. A.—L, 1654.  
 Mierswa, Otto R.—L, 1828.  
 Mueller, Fred W.—A, 510.  
 Newton, Selim H.—L, 1679.  
 Pierson, J. H.—A, 781.  
 Schmidt, J. F. W.—R, 78.  
 Schumacher, F. J.—A, 1109.  
 Streich, Edwin A.—L, 2110.  
 Turner, Jas.—R, 301.  
 Von Kaas, A. M.—R, 137.  
 Wakeman, C. A.—L, 1545.  
 Weeden, Harry W.—L, 1349.  
 Wegener, H. J.—R, 747.  
 Weisbrod, Chas. A.—L, 1992.  
 Werbke, N. C.—L, 1290.  
 Williams, Chas. E.—R, 803.  
 Zinn, Herman—A, 1075.
- OSSEO—Trempealeau Co.  
 Bersing, E. E.—A, 1028.  
 Brandon, A. H.—L, 1835.  
 Hotchkiss, H. E.—A, 48.  
 McPhail-Brandon, Kate—L, 1844.
- OTSEGO—Columbia Co.  
 Kiel, John P.—L, 2030.  
 Rehmstrand, R.—A, 939.
- PARDEEVILLE—Columbia Co.  
 Doyle, C. A.—R, 930.  
 Inglehart, Almon—A, 266.  
 Inglehart, W. A.—L, 2209.  
 Van Schaick, Mrs. S.—R, 113.
- PALMYRA—Jefferson Co.  
 Washburne R. J.—R, 210.
- PARK FALLS.  
 Haddy, G. M.—M, 41.
- PESHTIGO—Marinette Co.  
 Congling, John S.—R, 942.  
 Love, P. J.—L, 1520.
- PEWAUKEE—Waukesha Co.  
 Cameron, C. N.—L 1400.
- PHILLIPS—Price Co.  
 Sperry, E. D.—L, 1613.  
 Sperry, Willis B.—A, 194.  
 Tobey, C. E.—A, 151.
- PITTSVILLE—Wood Co.  
 Trumbull, Jay—R, 566.  
 Wood, M. B.—M, 89.
- PLAINFIELD—Waushara Co.  
 Borden, B. B.—R, 520.  
 Borden, Frank R.—L, 1898.  
 Peterson, J. S.—L, 1855.  
 Pratt, Hiram—R, 345.  
 Stevens, Theo. W.—M, 11.
- PLATTEVILLE—Grant Co.  
 Drinkall, T. O.—L, 907.  
 Goodell, L. L.—R, 740.  
 Wright, Chas. E.—L, 1155.  
 Youmans, H. J.—R, 742.  
 Youmans, H. L.—A, 1111.
- PLOVER—Portage Co.  
 Pierce, M. F.—R, 14.  
 Pierce, W. J.—L, 2105.
- PLUM CITY—Pierce Co.  
 Schulthess, J. J.—R, 688.
- PLYMOUTH—Sheboygan Co.  
 Ackermann, A. F.—L, 2021.  
 Corbett, C. C.—A, 858.  
 Jackson, C. W.—L, 1916.  
 Pfeifer, Chas.—R, 248.  
 Pfeifer, Emma—A, 100.  
 Schlaich, Julius—R, 656.

- PORTRAGE—Columbia Co.  
 Bellinghausen, H. L.—A, 33.  
 Cunningham, Thos. F.—L, 1838.  
 Edwards, Wm. M.—R, 228.  
 Foster, C. P.—L, 1123.  
 Graham, John—R, 221.  
 Hughes, Evan J.—A, 833.  
 Klenert, O. A.—L, 2228.  
 Purdy, Edmund—R, 191.  
 Rhyme, F. A.—L, 1219.
- PORT WASHINGTON—Ozaukee Co.  
 Audier, M.—R, 278.  
 Hoehle, F. B.—L, 2177.  
 Treloar, D. C.—L, 2211.  
 Westphal, H. A. J.—L, 2242.  
 Young, Nichols—R, 24.
- POYNETTE—Columbia Co.  
 Early, Edwin C.—L, 1931.  
 Hinkson, E. E.—R, 98.  
 Squire, L. A.—R, 570.
- PRAIRIE DU CHIEN—Crawford Co.  
 Brower, Arthur—R, 243.  
 Brower, T. L.—R, 704.  
 Curran, Jas. A.—M, 90.  
 Seifert, H. F.—L, 1704.  
 Wright, Elmer E.—L, 1399.  
 Wright, E. M.—R, 93.
- PRAIRIE DU SAC—Sauk Co.  
 Weaver, J. S.—A, 512.
- PRAIRIE FARM—Barron Co.  
 Farness, Ole W.—A, 329.
- PRENTICE—Price Co.  
 Salter, Frank J.—R, 698.
- PRESCOTT—Pierce Co.  
 McCray, Carlos—R, 914.  
 McCray, H. B.—R, 913.  
 Welch, E. R.—R, 912.  
 Welch, G. P.—R, 933.
- PRINCETON—Green Lake Co.  
 Litchenberg, Otto H.—R, 259.  
 Mueller, Frank—L, 1488.  
 Zobel, Ida—A, 39.
- PROSPECT HILL—Waukesha Co.  
 Winton, L. S.—R, 535.  
 Winton, T. S.—R, 536
- RACINE—Racine Co.  
 Casey, Jas. C.—A, 995.  
 Christensen, F. W. A.—L, 2109.  
 Clausen, C. W.—L, 1795.  
 Fancher, F. L.—R, 300.  
 Gieseler, Chas. L.—L, 876.  
 Harbridge, F.—R, 605.  
 Harbridge, Geo. F.—L, 1753.  
 Harbridge, Roy M.—L, 2073.  
 Heck, C. H.—L, 2248.  
 Holdemess, L. H.—A, 845.  
 Holmberg, A. E.—L, 2180.  
 Johnson, Jos.—L, 2164.  
 Keim, R. D.—A, 1124.  
 Kirkby, W. R.—R, 395.  
 Leonard, G. R.—A, 1135.  
 Lochner, John T.—R, 664.  
 Kohlmann, F. J.—A, 1046.  
 Kradwell, G. V.—L, 1534.  
 Loppenthien, John W.—L, 1718.  
 Madsen, Carl V.—A, 769.  
 Olle, A. E.—L, 2163.  
 Olsen, Theo. R.—A, 1045.  
 Pelikan, L. J.—A, 960.  
 Pelikan, Theo. J.—L, 2085.  
 Pokorny, Jos. C.—L, 2065.  
 Robinson, Richard—R, 36.  
 Roth, Harry R.—A, 974.  
 Schulze, John—L, 1359.  
 Schulze, T.—L, 622.  
 Schulze, W.—L, 624.  
 Stone, H. G.—R, 617.  
 Stone, W. L.—R, 616.  
 Thisen, T. W.—L, 1563.  
 Walter, B. Earl—A, 1104.  
 Wickern, Chas.—L, 1243.  
 Williams, R. T.—L, 1760.
- RANDOPH—Columbia Co.  
 Lightner, Mrs. J. R.—R, 539.  
 Lightner, J. A.—R, 540.  
 Lightner, J. S.—R, 823.
- READSTOWN—Vernon Co.  
 Ewers, Orlando—A, 98.
- REEDSBURG—Sauk Co.  
 Edwards, A.—A, 408.  
 Gunther, F. A.—L, 2167.  
 Hulburt, F. D.—R, 16.

- Kordenat, C. F. W.—L, 1079.  
 Mueller, Frank F.—L, 1655.  
 Ramsey, W. H.—L, 317.  
 Schroeder, G. W.—A, 1005.  
 Stolte, G. W.—A, 724.  
 Thiemann, Henry—L, 1885.  
 Weaver, Ike—L, 1157.
- REEDSVILLE—Manitowoc Co.  
 Brenner, H. L.—  
 Busse, Louis A.—L, 1896.
- REESEVILLE—Dodge Co.  
 Reinhard, G. C.—L, 1917.
- REWEY—Iowa Co.  
 Jones, Thos. O.—A, 1034.  
 Ladd, W. P.—L, 472.
- RHINELANDER—Oneida Co.  
 Hinman, Mrs. Anna A.—L, 1111.  
 Marks, M. F.—A, 569.  
 Reardorn, J. J.—L, 1332.  
 Swift, F. C.—L, 1899.
- RIB LAKE—Taylor Co.  
 Kelnhofer, O.—A, 1015.
- RICE LAKE—Barron Co.  
 Heintz, N. W.—R, 623.  
 Nelssen, Lars S.—L, 1063.  
 Nunn, Chas. F.—L, 1637.
- RICHLAND CENTER—Richland Co.  
 Allen, H. B.—R, 568.  
 Burnham, J. W.—L, 1280.  
 Cleveland, I. A.—R, 739.  
 Dieter, J. W.—L, 1580.  
 Meyers, J. F.—A, 1025.  
 Smith, F. O.—L, 1356.
- RIDGEWAY—Iowa Co.  
 Roach, R. J.—M, 87.
- RIO—Columbia Co.  
 Gilman, W. F.—L, 1695.  
 Linquist, Chas. J.—R, 97.
- RIPON—Fond du Lac Co.  
 Brayton, Jas. E.—R, 376.  
 Burnside, E. J.—L, 1032.  
 Cooke, F. W.—A, 774.  
 Fenelon, M. P.—L, 1841.  
 Pontow, G. E.—L, 2140.  
 Schallern, B.—R, 424.
- RIVER FALLS—Pierce Co.  
 Barnard, John C.—L, 1993.  
 Brier, J. W.—R, 104.  
 Freeman, R. S.—R, 155.  
 Love, C. A.—L, 2241.  
 Taggart C. R.—L, 1106.
- ROBERTS—St. Croix Co.  
 Sanford, O. D.—R, 354.
- ROCHESTER—Racine Co.  
 Burlin, L. B.—L, 1560.
- ROCK ELM—Pierce Co.  
 Jacco, Pitt—L, 2182.  
 Kendall, Fred. W.—A, 691.
- ROSENDALE—Fond du Lac Co.  
 McKnight, L. A.—L, 1778.
- ROYALTON—Waupaca Co.  
 Craig, W. R.—L, 405.
- SAUK CITY—Sauk Co.  
 Marquardt, A. E.—L, 1770.  
 Meyer, Arno—L, 2050.
- SAWYER—Door Co.  
 Wagener, H. A.—L, 1989.
- SCANDINAVIA—Waupaca Co.  
 Lang, Jas. C.—A, 859.  
 Peterstson, James—L, 2032.
- SENECA—Crawford Co.  
 Smethurst, Daniel—M, 24.
- SEYMOUR—Outagamie Co.  
 Le Mieux, L. A.—L, 910.  
 McCord, Sidney G.—L, 1650.
- SHARON—Walworth Co.  
 Chilson, B.—R, 551.  
 Dodge, E. A.—L, 2009.  
 Lowell, D. W.—R, 209.  
 Morris, David G.—R, 40.  
 Morris, Libbie J.—R, 692.  
 Underhill H. D.—R, 208.
- SHAWANO—Shawano Co.  
 Cantwell, Wm. H.—R, 255.  
 Gallagher, John F.—L, 1755.  
 Kremer, B. J.—L, 2120.  
 Naber, F. D.—R, 779.  
 Schutz, G. J.—L, 998.  
 Walter, F. Jr.—A, 1047.
- SHEBOYGAN—Sheboygan Co.  
 Adam, G. W.—L, 1428.  
 Bock, A. W.—R, 672.

- Gierke, Otto C.—L, 2208.  
Jaeger, Carl C.—L, 1824.  
Kaiser, W. L.—L, 2249.  
Kuener, Adolph R.—R, 164.  
Landwehr, A. W.—A, 1103.  
Look, J. H.—L, 1742.  
Meyer, Louis C.—L, 1382.  
Neumeister, Otto C.—L, 1323.  
Roenitz, H. F.—L, 2052.  
Thiemann, F. W.—R, 106.  
Zaegel, Max R.—L, 878.  
**SHEBOYGAN FALLS**—Sheboygan County.  
Barragar, W. H.—R, 834.  
    **SHELL LAKE**—Burnette Co.  
La Salle, Bessie M.—A, 1127.  
Tomkiewicz, F.—L,  
Wang, Albert—A, 1057.  
    **SHOPIERE**—Rock Co.  
Manley, A. B.—L, 158.  
    **SHULLSBURG**—La Fayette Co.  
Hayden, Dr.—R, 373.  
Kane, Wm. F.—L, 1975.  
Stearns, H. C.—R, 465.  
    **SOLDIERS GROVE**—Crawford Co.  
Errikson, A. H.—L, 660.  
Smith, R. S.—L, 465.  
**SOUTH KAUKAUNA**—Outagamie Co.  
Segall, Jacob—L, 1166.  
    **SOUTH SUPERIOR**—Douglas Co.  
Hummer, Jas. S.—L, 1587.  
    **SOUTH WAYNE**—Washington Co.  
Woolhiser, Mrs. Anna A.—A, 328.  
    **SPARTA**—Monroe Co.  
Crane, E. W.—R, 109.  
Enckhausen, H.—L, 1061.  
Grosse, F.—A, 174.  
Howell, H. L.—R, 795.  
Newton, F. N.—R, 234.  
Palmer, Fred. E.—L, 2010.  
Palmer, J. W.—L, 1928.  
Palmer, W. P.—R, 387.  
Prill J. C.—R, 414.  
Roebuck, E. E.—L,  
Schaller, Paul—L, 1533.  
Skelly, Geo. A.—A, 1235.  
Taylor, —.
- SPENCER—Marathon Co.  
Graves, S. D.—L, 941.  
Heath, Edwin—L, 263.  
Heath, Mary C.—A, 111.  
    **SPOONER**—Washburn Co.  
McNeal, —.  
Pelunek, R.—A, 1114.  
    **SPRING GREEN**—Sauk Co.  
Davies, D. D.—L, 181.  
Hare G. W.—L, 1703.  
    **SPRING PRAIRIE**—Walworth Co.  
Hubbard, E. C.—R, 562.  
    **SPRING VALLEY**—Pierce Co.  
Johnson, W. R. K.—R, 116.  
Rostad, Geo. N.—A, 1128.  
Rostad, K. T.—R, 59.  
Spence, W. G.—R, 694.  
Taylor, B. E.—R, 44.  
    **STANLEY**—Chippewa Co.  
Courtland, Fred—L, 1636.  
Medland, Fred.—L, 1850.  
    **STAR**—Vernon Co.  
Carpenter, Amos—R, 734.  
    **STAR PRAIRIE**—St. Croix Co.  
Millard, C. F.—R, 971.  
Perrin, Harry E.—L, 1530.  
    **ST. CROIX FALLS**—Polk Co.  
Isaacson, Alfred—R, 266.  
Olsen, Edw. J.—R, 267.  
Olsen, Isaac C.—L, 1897.  
    **STEVENS POINT**—Portage Co.  
Atwell, Wm. G.—L, 2037.  
Atwell, W. F.—L, 1337.  
Clark, F. W.—A, 1010.  
Congdon, Jas. R.—R, 538.  
Felker, Gus. A.—L, 1306.  
Heydorn, C. F.—L, 1421.  
Kryger, A. A.—A, 1113.  
Meyer, Otto F.—L, 1974.  
Mitchell, W. W.—R, 759.  
Moe, Oscar C.—A, 181.  
Taylor, David A.—L, 1455.  
Taylor, Wm. W.—L, 1524.  
Utter, W. D. L.—A, 1129.  
Voigt, Wm. F.—A, 978.  
    **STOCKBRIDGE**—Calumet Co.  
Golmgefsky, C. E.—L, 1384.

- STOCKHOLM—Pepin Co.  
 Larson, Elmer E.—L, 2078.
- STOUGHTON—Dane Co.  
 Bossingham, A. E.—A, 890.  
 Duncan, E. B.—A, 844.  
 Falk, F. N.—R, 648.  
 Falk, O. N.—R, 647.  
 Lothe, Ole H.—A, 191.  
 Melaas, O. O.—R, 724.  
 Rutlin, Lars L.—R, 727.  
 Sheldrup, A. F.—R, 375.
- STURGEON BAY—Door Co.  
 Dietz, Jesse C.—L, 1959.  
 Reichel, Mrs. Lizzie W.—L, 1843.  
 Spiegelberg, Emil—R, 673.  
 Stiles, Henry A.—L, 1548.  
 Woerfel, A.—A, 1107.
- STURM—Trempealeau Co.  
 Bersing, C. C.—A, 1028.
- SUN PRAIRIE—Dane Co.  
 Crosse, C. G.—R, 559.  
 Crosse, T. P.—R, 556.  
 Lewis, Ada A.—A, 32.  
 Lewis, L. V.—R, 52.
- SUPERIOR—Douglas Co.  
 Currie, Chas. F.—A, 989.  
 Merrill, B. D.—L, 1281.
- THERESA—Dodge Co.  
 Fickert, A. F.—A, 695.
- THORP—Clark Co.  
 McCutcheon, W. R.—L, 1949.
- TIGERTON—Shawano Co.  
 Sorley, E. B.—L, 1273.
- TOMAH—Monroe Co.  
 Banks, Geo. E.—L, 1237.  
 Burlin, F. H.—L, 1560.  
 Calkins, Chas. A.—L, 1294.  
 Elwell, Fred O.—L, 1435.  
 Groezinger, F. A.—L, 1475.  
 Hallett, John W.—A, 21.  
 Holmberg, N.—L, 2029.  
 Jennings, R. W.—A, 1126.  
 Simonson, J.—L, 1319.
- TOMAHAWK—Lincoln Co.  
 Macomber, C. E.—R, 796.  
 Webster, J. Clarence—L, 1748.
- TREMPEALEAU—Trempealeau Co.  
 Pierson, J. H.—R, 18.  
 Pierson, J. S.—M, 12.
- TURTLE LAKE—Barron Co.  
 Griswold, L. E.—A, 1056.
- TWO RIVERS—Manitowoc Co.  
 Gebhart, H. M.—R, 199.  
 Kirst, C. F.—A, 358.  
 Stockmeyer, O. C.—L, 1926.
- UNION CENTER—Juneau Co.  
 Gilluly, Thos.—R, 211.
- UNION GROVE—Racine Co.  
 Buchan, T. G.—R, 27.
- Callender, Wm. J.—A, 25.
- UNITY—Marathon Co.  
 Clark, Jas. H.—M, 83.
- VIOLA—Richland Co.  
 Burgor, N. H.—R, 558.  
 Mathews, C. F.—R, 574.
- VIROQUA—Vernon Co.  
 Arnold, Wyman S.—L, 1987.
- Dahl, Chas. F.—L, 1260.
- Johnson, Andrew J.—L, 1467.
- Trowbridge, C. H.—L, 902.
- WALDO—Sheboygan Co.  
 Corbett, A. B.—A, 1079.
- Lawson, R. W.—M, 19.
- WALWORTH—Walworth Co.  
 Stillman, J. F.—F, 368.
- WARRENS—Monroe Co.  
 Barker, W. A.—R, 841.
- Waters, Frank R.—A, 373.
- WASHBURN—Grant Co.  
 Frost, Quincy W.—L, 1886.
- McDonald, L. J.—L, 1670.
- Owen, Edwin S.—L, 1411.
- Spiess, Axel—L, 1767.
- Swedenburg, A. W.—A, 1032.
- WATERFORD—Racine Co.  
 Moe, Chas.—R, 640.
- Moe, Geo.—A, 103.
- Noll, Louis—R, 987.
- Noll, Louis L.—A, 192.
- WATERLOO—Jefferson Co.  
 Failinger, Courad—R, 746.
- Failinger, Z. O.—A, 980.
- Humphrey, A. J.—R, 145.



- McNeil, Jas. S.—L, 1150.  
Whipple, Edwin O.—L, 1884.  
White, Wm. N.—A, 878.  
WATERTOWN—Jefferson Co.  
Bergmann, Henry.—L, 2038.  
Brennecke, R.—R, 223.  
Cody, W. G.—R, 768.  
Eberle, A. R.—A, 1043.  
Eberle, Herman—L, 497.  
Gamm, Chas. A.—L, 1391.  
Johnson, E.—R, 927.  
Schempf, J. W.—L, 1938.  
Schmidt, W. H.—A, 782.  
Schulz, H. L.—A, 870.  
Schulz, W. J. F.—A, 959.  
Stapleton, Ed. M.—L, 1546.  
Steinfort, Henry—R, 224.  
WAUKESHA—Waukesha Co.  
Arnold, Clifton S.—L, 1210.  
Arnold, Halton C.—L, 1713.  
Dunlap, C. L.—L, 909.  
Dunlap, Will P.—L, 1119.  
Estberg, A. C.—L, 1082.  
Jones, Geo. A.—L, 1756.  
Lau, Arthur P.—A, 518.  
McCoy, Michael—L, 1919.  
Morris, Harry F.—A, 633.  
Nelson, C. E.—L, 1100.  
Sauner, W. L.—L, 1091.  
Schneider, A.—A, 542.  
Steusloff, W. M.—L, 2150.  
Swan, Wm. E.—R, 216.  
Travis, Edwin A.—M, 40.  
Voss, Alvin—L, 2090.  
Wardrobe, F.—R, 428.  
Wardrobe, W. G.—L, 1171.  
White, I. M.—R, 625.  
Williams, John S.—A, 393.  
WAUNAKEE—Dane Co.  
Hudson, Chas.—R, 629.  
WAUPACA—Waupaca Co.  
Bailey, Ransom—R, 643.  
Baldwin, W. C.—R, 662.  
Bemis, J. W.—A, 147.  
Clark, Thos. A.—A, 826.  
Hoeking, Wm. J.—L, 677.  
Janda, Frank J.—A, 1137.  
Janda, Jos.—L, 2124.  
Lorentz, G. L. W.—L, 1395.  
Naughton, Jos. M.—L, 1701.  
Nordvi, A. C.—L, 1945.  
Pelton, L. H.—L, 1195.  
Sorenson, S. P.—L, 1901.  
Truesdell, C. H.—L, 2080.  
Whipple, Frank—R, 77.  
WAUPUN—Dodge Co.  
Johnson, Carl C.—A, 629.  
Kastein, J. A. Jr.—A, 1082.  
Lehmann, R. C.—A, 710.  
O'Dwyer, Geo.—L, 1656.  
Patton, E. B.—L, 575.  
Richardson, F. J.—A, 688.  
Turner, J.—  
Wilcox, A. J.—L, 2043.  
WAUSAU—Marathian Co.  
Albers, W. W.—L, 1081.  
Bade, Walter A.—A, 1131.  
Krueger, E. A.—A, 1138.  
Morman, F. H.—R, 860.  
Naffz, Gustav—L, 1426.  
Pardee, E. D.—R, 580.  
Ploss, D. F.—L, 2170.  
Schwanberg, B.—L, 2015.  
Stone, C. F.—R, 753.  
Tradel, Geo.—A, 1145.  
WAUTOMA—Waushara Co.  
Hunt, G. E.—A, 544.  
WAUWATOSA—Milwaukee Co.  
Koerner, John G.—L, 1887.  
Schneiderwirth, A. Jr.—L, 2158.  
Schwaiger, E. H.—L, 1335.  
Straube, A. H.—A, 1090.  
WAUZEKA—Crawford Co.  
Sillge, W. M.—M, 3.  
Vaughan, W. A.—M, 5.  
WEST BEND—Washington Co.  
Gerlach, Herman—L, 1833.  
Haase, F. M.—L, 2156.  
Wehle, Wm. J.—L, 1442.  
Wolfmueller, F.—R, 58.  
WESTBY—Vernon Co.  
Myhre, G. F.—R, 670.  
Spellum, C. L.—L, 1659.  
Unseth, O. A.—L, 1840.

WEST DE PERE—Brown Co.  
 Arent, John H.—L, 1999.  
 McDonald, Thos. J.—A, 916.  
 WESTFIELD—Marquette Co.  
 Hill, H. D.—M, 31.  
 Lichtenwalner, H.—L, 1736.  
 Waldo, Fred—A, 1083.  
 WEST LIMA—Richland Co.  
 Tillou, Harvey D.—R, 132.  
 Tillou, Letitia M—A 53.  
 WEST SALEM—La Crosse Co.  
 Johnson, Alex—R, 19.  
 WEST SUPERIOR—Douglas Co.  
 Aust, Chas. W.—L, 1443.  
 Babo, Eugene L.—  
 Beebe, L. W.—L, 1474.  
 Brown, E. H.—L, 1991.  
 Cameron, Hugh J.—L, 1893.  
 Campbell, A. A.—L, 1553.  
 Dowsett, Arthur—L, 2179.  
 Draper, A. E.—R, 584.  
 Falk, Charlotte—L, 1911.  
 Fowler, John B.—A, 909.  
 Friis, L. C. S.—L, 1514.  
 Fulton, John I.—L, 1562.  
 Fulton, Levy R.—L, 1768.  
 Gillard, A. E.—A, 1008.  
 Gunz, A. N.—L, 2235.  
 Hanson, John—R, 251.  
 Herb, Joseph—L, 1815.  
 Hilt, John R.—  
 Johnson, Matt. J.—L, 1034.  
 Larsen, Geo. F.—L, 1452.  
 Lignell, P. A.—L, 2171.  
 Mertes Anton—R, 80.  
 Niehoff, Frank X.—L, 1498.  
 Priest, F. D.—L, 2077.  
 Short, Wm. H.—L, 1906.  
 Slocum, C. H.—R, 399.  
 Zwickey, W. H.—L, 1946.  
 WEWAUWEGA—Waupaca Co.  
 Post, L. D.—L, 1644.  
 Woodnorth, F. S.—A, 89.

WHEELER—Dunn Co.  
 Allen, C. M.—L 1831.  
 WHITEHALL—Trempealeau Co.  
 McNaughton, D. J.—L, 1940.  
 Parker, W. E.—M, 55.  
 Wassweiler, Chas. S.—L, 1936.  
 WHITEWATER—Walworth Co.  
 Braaten, M. O.—L, 1781.  
 Buss, Edw.—A, 1027.  
 Duffin, L. A.—L, 1657.  
 Goetsch, H. F. A.—L, 1567.  
 Leland, A. M.—L, 1346.  
 O'Connor, F. M.—R, 55.  
 O'Connor, H. J.—R, 56.  
 Simonsen, Geo. S.—A, 926.  
 WILD ROSE—Marathon Co.  
 Smart, Chas. A.—R, 861.  
 WILMOT—Kenosha Co.  
 Thompson, J. F.—R, 176.  
 WILTON—Monroe Co.  
 Porter, W. E.—A, 828.  
 Schmalz E. A.—A, 941.  
 WINNEBAGO—Winnebago Co.  
 Sonn, J. V. N.—R, 630.  
 WINNECONNE—Winnebago Co.  
 Becker M.—L, 2250.  
 Hilt, John R.—L, 2044.  
 Knudson, K.—R, 1310.  
 WITTENBERG—Shawano Co.  
 Leutsker, R. J.—R, 1023.  
 Puchner, Edw.—A, 212.  
 WONEWOC—Juneau Co.  
 Bishop, G. W.—R, 966.  
 Rodecker, C. W.—L, 1341.  
 Rodecker, Royal C.—A, 921.  
 Schmidt, Fred—R, 701.  
 Wolfenden, C. E.—R, 105.  
 WRIGHTSTOWN—Brown Co.  
 Wolf, Chas. W.—A, 1088.  
 WYOCENA—Columbia Co.  
 Irwin, J. G.—R, 853.  
 Riker, Cyrus—R, 854.  
 Townsend, A. J.—R, 809.





## WHOLESALE DRUGGISTS.

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As was shown in the introductory chapter on the history of pharmacy in Wisconsin, the early "drug" stores were general stores. Being located in Milwaukee, they not only supplied the people of the immediate vicinity, but the smaller towns of the interior as well. From the very beginning, therefore, no small amount of the business transacted was of a wholesale nature. The advertisements, therefore, announce that physicians and dealers can be supplied from the stock taken in for the winter at Milwaukee, as well as persons who desire to purchase in small amounts only for their immediate personal wants.

It was some time before specialization into separate wholesale and retail firms became as marked as it is to-day. As a matter of fact, without an exception, the present wholesale firms grew out of retail stores. As a result we, therefore, find a larger number of firms doing more or less wholesale business in the fifties and sixties than to-day. While some gradually dropped the wholesale business, others developed it and dropped the retail part in order not to compete along this line with the retail druggists to whom they tried to sell. Still others dropped the drugs and specialized in paints and oils etc.

The Directory of Milwaukee for 1847-'48 enumerates Bosworth & Son, W. M. Cunningham, H. Fess, Hatch & Co., all on East Water St. In the following year Lake & Williams are added to the list. In 1858-'59, ten years later, the Directory enumerates fifteen retail and six wholesale firms. The latter group includes Bosworth & Sons, H. Fess Jr., Greene & Button, C. Harrington, Jno. Rice, all on East Water St., and Jno. Tesch on Spring St., now Grand Ave. Of these Mr. Fess and Mr. Tesch are also enumerated among the retail druggists. Among the additions of 1859-'60 we find the firm name of

Dohmen & Mueller on Reed and Lake Sts., also of Enno Meyer on 3rd and Chestnut Sts. The wholesale list for 1861—'62 includes but four firm names, viz. Bosworth & Sons, Dohmen, Schmitt and Schulder, Greene & Button, and Jno. Rice. The list for 1864—'65 contains in addition: James Patton; Schorse, Baumbach & Co.; Geo. W. Swift; whereas Jno. Rice drops out. Up to this time the name of Drake Bros. does not occur among the wholesale list, but it is to be found among the retail list since 1860—'61. Inasmuch as the present wholesale firms in Milwaukee are the successors of firms thus far enumerated, the subsequent changes can best be traced by recording briefly the history of these houses.

Outside of Milwaukee, Wisconsin has but few wholesale firms, e. g. the two at La Crosse: James McCord, and F. H. Spence & Co. Other firms, however, do business in this state, notably firms of Chicago, St. Paul and New York.

#### The F. Dohmen Co.

The present firm had its beginning in 1858 when Mr. Frederick Dohmen opened a drug store on Reed St. A year later Mr. Schulder was taken in as partner and in 1862 he was succeeded by Mr. Mueller. In 1864 the firm underwent another change, the firm name being Dohmen, Schmitt & Co. The four partners were F. Dohmen, Wm. Schmitt, Edw. Schmitt and C. A. Meissner. In 1883 the firm was incorporated under the name of F. Dohmen Co. with F. Dohmen as President, H. J. Hilbert as Treasurer and Henry Dohmen as Secretary.

Two years later, Mr. Hilbert's interests were purchased by the Dohmen family, Mr. Wm. F. Dohmen entering the firm. Since the recent death of the senior member and founder of the firm, the younger son, W. F. Dohmen has succeeded him as President. The older son, Henry Dohmen, is Treasurer, and F. W. Dohmen, a cousin, has been elected Secretary.

The original retail business was dropped as early as 1862, since which time it is exclusively wholesale with some manufacturing. From Reed Street, the store was moved to East Water St., between Erie and Buffalo, about 1860. In 1862 it was moved to the present location, 267-271 E. Water St., between Buffalo and Detroit.

In addition to Wisconsin, the territory covered by the firm includes the western shore and the peninsula of Michigan, also parts of Minnesota, Iowa and Dakota.

Mr. Frederick Dohmen, the founder of the house, was born in Dec. 20, 1831 in Germany. He was educated as a pharmacist in Düren and came to America 1855. He spent about a year in New York and then came to Milwaukee. Here he clerked for Enno Dorestan and then for John H. Tesch, starting in business for himself in 1858 as related above.

### Drake Bros. Co.

The present business had its origin in a retail store opened under the name of Drake Bros. by John R. Drake and Harvey W. Drake on the corner of South Water and Clinton Streets January 1. 1860. Some jobbing was done from the beginning and when in 1872 a part of the stock was moved to 378 East Water St., it was first intended to drop the retail business. The location, however, proved favorable for retail trade, so that this has been continued up to the present time. In 1880 the store was again moved, this time to the present location, 465—367 East Water St., corner of Michigan St. In 1894 the firm was incorporated as Drake Bros. Co., the President being John R. Drake, Vice President H. W. Drake, Secretary and Treasurer, Henry T. Drake, a third brother not in the original firm.

In addition to a ware house on Florida St., the firm has a branch store on Reed and Oregon Sts. Some manufacturing is also done.

The territory covered includes northern Michigan besides Wisconsin, formerly also Minnesota and Iowa.

Mr. John R. Drake, the senior member of the firm was born in 1834 in Erie Co., N. Y. Previous to the establishment of his own business in 1860 he was with Lake & Williams, Lake & Hopkins, Hopkins Bros. & Co., and with Dr. Lafayette Lake. He joined the American Pharmaceutical Association in 1860 and is now one of the life members of this association. For some time he was the only member from Wisconsin and for a number of years was the authorized agent of the association for this state.

### Jerman, Pflueger & Kuehmsted Co.

This firm began business in 1894, succeeding the Greene & Button Co. of Milwaukee.

The latter firm was established in 1848 by Thomas A. Greene, who had settled in Milwaukee, having just come from his boyhood home in Providence, R. I. In 1849 H. H. Button joined Mr. Greene

in the enterprise, and from a retail business of the ordinary kind sprang a successful jobbing business, which extended not only through Wisconsin, but throughout the entire Northwest. In 1873 the business of the firm was incorporated under the style of Greene & Button Co., the elder members admitting to partnership several of their old time employes, more notably Mr. O. D. Barker and Mr. C. H. O'Neil. The business thrived, and the new company began to interest itself in what is known as the "heavy goods" trade.

The death of Mr. Button in February 1890, followed by that of Mr. Greene in September 1894, caused the company to think that its interests would be served best by closing out its business entirely, and to that end the stock was disposed of in 1894 to Jerman, Pflueger & Kuehmsted Co., who immediately began a complete re-organization. The active members of the new company consisted of Chas. A. Jerman and W. F. Pflueger, who were formerly connected with one of the Chicago houses, the former in the capacity of general salesman, the latter as a traveler,—and Mr. Otto Kuehmsted, who for sixteen years had been in the employ of Greene & Button Co. as travelling representative.

Mr. Howard Greene, a son of Thomas A. Greene, became a stockholder and officer of the new company, acting as Secretary and Treasurer, while Mr. Charles P. Button was made President of the new corporation. Upon Mr. Button's death in May 1897, his mother, Mrs. E. A. Button, was elected in his place and holds this office still. Mr. Pflueger disposed of his interests a few months later and has embarked in the manufacture of aluminum novelties at Manitowoc. Mr. Chas. A. Jerman was elected Business Manager of the new firm and still holds this position.

J. P. & K. Co., as the new firm is familiarly called, at once discontinued the handling of heavy goods and devoted their entire energies to the establishing of a strictly drug and sundries business. The stock was removed from the old location on East Water St., where Greene & Button Co. had been for a quarter of a century, new quarters being taken in the newly rebuilt Seaman block at Nos. 113—121 Huron St. with a frontage of 100 feet and a private alley in the rear. The new firm was enabled to arrange their display and stock rooms in a very pleasing and convenient manner. If built expressly for them the building could hardly be improved upon, and this particularly applies to the Sundries Department.

Two years ago the trade had increased to such an extent as to make it necessary to look out for storage space, and, fortunately, they succeeded in effecting arrangements, enabling them to occupy part of another building just south of their store, connected with convenient bridges across the alley from the main store. This gives the firm ample and unexcelled facilities for carrying on a trade that is increasing year by year.

### **Yahr & Langé Drug Co.**

This company is the successor to the Chas. Baumbach Co., which succeeded the firm of Baumbach & Rosenthal, and this in turn succeeded the firm of Baumbach & Gerhardy established in 1871.

Mr. Chas. Baumbach, who was the originator of this house, and who was with it, throughout the numerous changes up to July 1900, was born in Hessel-Cassel in 1840. At the age of eight, he came with his parents to America, first to Black River, Ohio. Later, about 1852, he followed them to Milwaukee. His family spent several years in Germany about the middle of the fifties, but returned to America, where as a young man of about eighteen he was apprenticed to a Mr. Wm. Fisk, a druggist of Cleveland. A year later, in 1859, he came once more to Milwaukee and clerked for Clayton Harrington, then for John A. Tesch and finally for Enno Meyer, entering the army in 1861. Upon his return from the war in 1865, he with Mr. Otto Schorse, who likewise had returned from the war, and Mr. Rudolph Mieding bought out Enno Meyer on 3rd and Chestnut Sts. and established the firm of Baumbach, Schorse & Mieding. Three years later, in 1868, he sold out his interest to his partners and established a drug store in St. Cloud, Minn. After a year, however, he returned and bought Mr. F. Schwefel's drug store on East Water and Mason Sts. Only a block farther north, on East Water and Oneida Sts., was the store of Kirst & Gerhardy.

In 1871 Mr. Baumbach formed a partnership with Mr. Gerhardy and thus the firm of Baumbach & Gerhardy was established, which has continued under different names and was last summer succeeded by the Yahr & Langé Company.

The store on East Water and Oneida (Schwefel's drug store) was soon sold to Mr. L. Lotz, that on East Water and Oneida (Kirst & Gerhardy's former store) being sold to Platter & Schaller

in 1874. Besides the retail business, jobbing was carried on from the beginning of the partnership of Baumbach & Gerhardy. In 1874, after the sale of the second store, the wholesale department was moved to the Opera House Block across the street and the retail business was dropped entirely. In 1872, the business was moved to Rudolf Nunnemachers's building next to the St. Charles Hotel, where some years later, April 5, 1885, a fire destroyed the stock. For a year the business was conducted on Broadway, opposite the Chamber of Commerce. In 1886 it was taken to the present location, 486—502 Market St.

During these years the membership of the firm, with the exception of Mr. Baumbach, underwent even more rapid changes than its location. In August 1872, Dr. Ferdinand Rosenthal bought out the interests of Mr. Gerhardy for his son, Mr. Max Rosenthal, who is still a member of the present firm. The firm name was changed to Baumbach & Rosenthal. Mr. Gerhardy, however, soon came back, first as traveling representative, later as manager. During this period, Mr. Ernst Baumbach, a brother of Charles Baumbach, was a partner for about seven years, but at the time of reorganization sold out to Mr. Nicholas Lonsdorf, who in turn sold out to Mr. C. A. Meissner.

In 1885 the firm was incorporated as the Chas. Baumbach Co. with Mr. Chas. Baumbach as President, Mr. Rudolf Kaltenborn as Secretary, Mr. N. Lonsdorf as Treasurer and Mr. Theodore Gerhardy as Manager. When Mr. Meissner succeeded Mr. Lonsdorf in the business, he also became his successor as Treasurer. Toward the close of the eighties, Mr. Gerhardy succeeded Mr. Lonsdorf as Secretary.

In 1890 Mr. F. T. Yahr bought Mr. Meissner's stock, and in 1893, about the time of the death of Mr. Gerhardy, took an active part in the business, being elected Treasurer.

In July 1900, Mr. Baumbach withdrew from the firm which was reorganized under its present name with Mr. F. T. Yahr as President, Mr. L. A. Langé as Secretary, and Mr. E. F. Yahr as Treasurer. Mr. Langé is one of the oldest members of the State Pharmaceutical Association, but for a number of years was active in the drug business in Chicago.



Manufacturing.



### **Kremers & Urban Co.**

This firm was incorporated in 1894 with Mr. Albert Kremers as President and Treasurer, and Mr. Leo. C. Urban as Vice-President and Treasurer. Manufacturing was immediately entered upon in connection with the retail business at 647 Third St. In the fall of 1900 the retail store was sold. The laboratory, which had previously been extended, and the offices are in the Centennial Bldg., on Third St., Corner Reservoir Ave.

In addition to Wisconsin, the peninsula of Michigan and a part of Illinois are covered.

The last price list, which was issued in January 1900, includes about five hundred articles, but many other preparations are manufactured according to private formulæ of physicians and pharmacists. In addition to general galenical preparations, they manufacture some specialties, e. g. solution glycerino phosphates, and chemicals, e. g. iodocrol, purified chloroform for anaesthesia etc.

### **Wisconsin Pharmacal Company.**

This company may be regarded as the latest offspring of the Wisconsin Pharmaceutical Association. At the Stephens Point meeting (Proc. 1896, p. 30) the Committee on Trade Interests reported, that the plan which had been under consideration for two years had realized and that on March 3rd of that year a well attended meeting had been held at Madison. A constitution and by-laws were adopted and officers and directors were elected. A lengthy discussion follows the report. A year later, at the Green Bay meeting, the new company made an exhibit (Proc. 1897, p. 27) and a committee of three, not stock holders, made a detailed report to the Association. Owing to the interest manifested at the previous meeting of the Association, the stock holders felt warranted in incorporating November 18, 1896. The officers elected were: President, C. Widule of Milwaukee; Vice-

President, D. Taylor of Stevens Point; Treasurer, A. F. Menges of Madison; Secretary, E. B. Heimstreet of Janesville; Directors, R. J. Washburne of Palmyra, J. C. Huber of Fond du Lac, and E. Sumner of Madison.

On February 1, 1897, active work began at the factory, 44 Johnson St., Milwaukee, with E. G. Raeuber in charge of the manufacturing and Mr. Heimstreet in charge of the business management. The first shipment was made March 1, 1897.

At present all of the stock is sold and the company is prospering in spite of the fact that it had to expend a sum equal to ten percent of its investment for revenue stamps.

Since July 1, 1897, Mr. Raeuber has been in charge of the business management as well as of the manufacturing. The present officers are: President, C. Widule of Milwaukee; Vice-President, E. Engsberg of Lake Mills; Secretary, E. B. Heimstreet of Janesville; Treasurer, A. F. Menges of Madison; Directors, R. J. Washburn of Palmyra, D. A. Taylor of Stevens Point, H. Rollman of Chilton, A. W. Biebesheimer of Milwaukee, E. M. Krembs of Milwaukee.

The constitution and by-laws are herewith appended.

### CONSTITUTION.\*

---

We, the undersigned, do hereby associate ourselves together for the purpose of forming a corporation under Chapter 85 and 86, Revised Statutes of the state of Wisconsin, and the laws amendatory thereof, and to adopt the following Constitution:

#### ARTICLE I.

The name of this corporation shall be the Wisconsin Pharmacal Manufacturing Company. The nature of its business shall be the manufacturing of medicines, medical compounds and drugs, and the buying and selling of same, and the carrying on of a general business. The principal place of business shall be in the city of Milwaukee, in the county of Milwaukee, and state of Wisconsin.

#### ARTICLE II.

The time of commencement of this corporation shall be the third Tuesday in November, 1896, and the continuance shall be thirty years.

#### ARTICLE III.

The amount of capital stock of this corporation shall be ten thousand dollars (\$10,000) and shall be non-assessable, to be paid in at such times and in such amounts as shall be called for by the Board of Directors.

---

\* As amended Dec. 3, 1900.

## ARTICLE IV.

The highest amount of indebtedness or liability to which this company shall at any time be subject is the sum of two thousand dollars (\$2,000).

## ARTICLE V.

The government of this corporation and the management of its affairs shall be vested in a board of nine directors, who shall be stockholders, and three of said directors shall be elected at the annual meeting, which shall be held at the office of the company at two o'clock p. m. on the third Tuesday in November in each year, after the first year, 1896. They shall hold their offices for three years and until their successors are elected and enter upon the discharge of their duties. Vacancies in the Board of Directors may be filled by said board, and any person elected to fill a vacaney shall hold his office until the next annual meeting.

The officers of this corporation shall be a president, vice-president, secretary and treasurer. Said officers will be chosen by the Board of Directors from their own number, immediately after each annual meeting of the corporation, and shall hold their offices for one year and until their successors are elected and enter upon the discharge of their duties.

The first Board of Directors shall consist of C. Widule, Milwaukee; D. A. Taylor, Stevens Point; E. B. Heimstreet, Janesville; A. F. Menges, Madison; J. C. Huber, Fond du Lac; R. J. Washburne, Palmyra; Edwin Sumner, Madision.

## ARTICLE VI.

The capital stock of this corporation shall be divided into one thousand (1,000) shares of ten dollars (\$10.00) each. No person, co-partnership or corporation shall own more than twenty-five shares of stock at any time.

## BY-LAWS.

## ARTICLE I.

SEC. 1. No stock in this corporation shall at any time be sold, issued or transferred to any person, co-partnership or corporation who is not actively engaged in the retail drug business or a registered pharmacist of Wisconsin.

SEC. 2. The election of the Board of Directors shall be by ballot and shall be held in the office of the company on the third Tuesday in November in each year, at the time of the annual meeting of the corporation. The secretary shall, at least two weeks before the date of said meeting, mail notices thereof to all stock holders whose addresses are known to him.

## ARTICLE II.

SEC. 1. The president shall preside at all meetings of the Board of Directors, and of the stockholders, and shall be entitled to vote on all questions. It shall be his duty to attend the meeting of the Board of

Directors, and be at the office of the corporation whenever necessary for the transaction of business, and to see that the rules and regulations of the corporation are complied with. He shall sign all certificates of stock, all notes of agreements entered into by the corporation, all orders drawn on the treasurer for payment of moneys ordered by the Board of Directors; shall execute all conveyances and perform such other duties pertaining to his office as the Board of Directors shall from time to time prescribe. He shall also be custodian of the treasurer's bond.

SEC. 2. The vice-president shall perform all the duties of the president during his absence or disability.

#### ARTICLE III.

SEC. 1. The secretary shall keep correct minutes of the meetings of the stockholders and the Board of Directors and committees in such a manner as they shall prescribe, or as provided for by the by-laws. He shall be custodian of the corporate seal. He shall conduct all correspondence and in conjunction with the president sign all orders on the treasurer, and agreements entered into by the corporation, except notes, all conveyances made by the corporation. He shall keep in his possession all documents belonging to the corporation, or appertaining to its business. He shall perform all other duties that are incident to the character of his office.

SEC. 2. All the books, papers and records of the corporation in the hands of the secretary shall be open to the inspection of the stockholders at all times. At the end of his term of office he shall deliver to the corporation or his successor all books, papers and other property belonging to the corporation.

#### ARTICLE IV.

SEC. 1. The treasurer shall receive all moneys paid into the corporation, and shall pay all bills on the order of the Board of Directors, signed by the president and secretary. He shall keep a regular set of books containing the accounts of the corporation, and all the funds which may pass through his hands. He shall execute in conjunction with the president all notes of the corporation. He shall, as treasurer, keep an account with such bank as the Board of Directors may from time to time direct. He shall at each stated meeting submit a statement of the financial condition of the corporation to the Board of Directors. He shall also prepare a full statement of the finances of the corporation and shall submit it to the stockholders at their annual meeting, and shall perform such other duties appertaining to his office, as the Board of Directors may from time require. His books, papers and accounts shall at all times be open to the inspection of the Board of Directors, and at the end of his term of office he shall forthwith turn over to his successor or to the corporation all funds, books and papers belonging to the corporation.

SEC. 2. The treasurer shall give and from time to time renew such security as may be required by the Board of Directors in not less than one thousand (\$1,000) dollars for the faithful performance of his duties.

## ARTICLE VI.

Meetings of the stockholders may be called at any time by the secretary of the corporation when directed to do so by the Board of Directors; at least ten day's notice of such meeting shall be given in the manner provided in Section 2, Article 1, of these By-Laws.

## ARTICLE VII.

All persons purchasing stock and becoming members of this corporation shall do so upon the express agreement and understanding that they will at all times maintain the retail prices fixed by this corporation on goods manufactured by it, and will not at any time sell said goods at prices lower than the prices so fixed.

Upon proper proof being submitted to the Board of Directors that any stockholder has failed to maintain said prices, said board may by a two-thirds vote forfeit his stock.

## ARTICLE VIII.

The respective officers of the corporation shall receive such salary as the Board of Directors may deem it for the best interest of the corporation to pay, and no officer shall be removed except by a two-thirds vote of the directors.

## ARTICLE IX.

Certificates of stock shall be issued to the stockholders, signed by the president and secretary under the seal of the corporation upon the written order of the treasurer. Stock shall be transferred only upon the books of the company and it shall have a lien on all stocks for the debts of every kind due it from its members, and no transfers shall be made until such debts are paid in full.

All sales or transfers of stock must be reported for record as soon as made, but no transfers shall be made to any one who is not a bona fide retail druggist, or registered pharmacist of Wisconsin.

Stockholders may make application for cancellation of their stock at par value, and if approved by the Board of Directors, shall be purchased by the company.

## ARTICLE X.

This Constitution or By-Laws shall not be altered, amended or repealed except by a majority vote of the stock cast at any regular meeting or at any special meeting of the stockholders, and notice of such alteration, amendment or repeal be sent to all stockholders, at least two weeks previous to said meeting.





# JOURNALISM.



## Journalism.

The first pharmaceutical journal which, to our knowledge, has been published in the State of Wisconsin, is the **Wisconsin Druggists Exchange**, which made its appearance in 1893. It is edited and published by Mr. E. B. Heimstreet of Janesville, who has been Secretary of the State Board of Pharmacy, and also, until recently, the Secretary of the Wisconsin Pharmaceutical Association. As Secretary of both organizations, he kept in touch with all druggists of the state and was frequently called upon to perform duties not necessarily functions of his office. The "Exchange" was evidently established with a view of making these unofficial acts more far reaching in their scope. At the Oshkosh meeting in 1894 the State Association made the "Exchange" its official organ.

The first number of the **Pharmaceutische Rundschau**, edited and published by Dr. Fr. Hoffmann in New York City, made its appearance in December 1882. It was printed in the German language and at once assumed high rank among the scientific and professional journals of the country. Since January 1896, the language has been changed to English. The **Pharmaceutical Review**, as it is now known, is published by the Pharmaceutical Review Publ. Co. of Milwaukee, and edited by Dr. Edward Kremers with the assistance of his colleagues at the University and with the co-operation of some of the leading representatives of pharmaceutical science of the country.

Since January 1898, the more technical and lengthy scientific articles have been taken out of the Review and published separately as the **Pharmaceutical Archives**. The two journals thus supplement each other.

In December 1899 the first number of **The Milwaukee Pharmacist** made its appearance as No. 12 of vol. 1. It was published by Jerman, Pflueger & Kuehmsted Co. of Milwaukee, and edited by Mr. R. Sommer. A second number, vol. 2, No. 1, appeared a month later.







A DREAM OF A MEMBER OF THE CLASS OF '02.—IT IS NO MORE.

.... ESTABLISHED 1858 ....

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## WHOLESALE DRUGGISTS

MANUFACTURERS AND IMPORTERS OF .....

**Drugs, Chemicals and  
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SOLE DISTRIBUTORS OF THE FOLLOWING  
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| ROBERTS' QUICK COUGH CURE,                | ROBERTS' HOUSEHOLD TEA,    |
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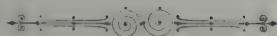
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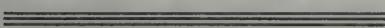
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# FULLER & FULLER CO.

IMPORTERS



AND

WHOLESALE DRUGGISTS.



Randolph and Franklin Streets,

CHICAGO.

### Freshman Toast

To the time of  
"Toast to Wisconsin."



Botany, botany,  
U—rah—rah, Professor Cheney,  
Praise to thee we sing.  
Praise to thee from eight to ten.  
U—rah—rah, Wisconsin.



### An Original Badger Poem.



Eine neue Apotheke,  
In West Bend, hat sehr gefehlt,  
Nun kommt Alle her und sehet,  
Ob nun diese Euch gefällt?  
Na, das ist ja eine Freude,  
Daz man Alles haben kann,  
Gut und billig sind die Waaren,  
Dies befriedigt Zedermann.

Medicinen und Recepte,  
Werden sehr gut ausgeführt,  
Denn der neue Apotheker,  
Hat acht Jahr' schon praktizirt,  
Fünf Jahr' war er bei Widule,  
Conrath der empfiehlt ihn sehr,  
Auch der Herr von Trott kann sagen,  
Daz perfect im Fach er wär'.

## Do You Use Lettered Rx Ware?

There's not so very much difference in the price between lettered and plain ware, yet lettered bottles scattered broadcast are a source of profit to you as an advertising medium. When again ordering bottles why not try a few cases of lettered ware? We shall be pleased to quote prices on application. \*



## TALK ABOUT CORKS! \*

Have you ever tried the special corks our Mr. Baseler sells such enormous quantities of in Wisconsin? You should certainly place an order for some of these. Write for samples and prices. \*

A. M. FOSTER & CO.,

120 Lake Street,

\* \* CHICAGO.

A good foundation  
Quality always

Your  
Mail  
Orders?

We carry a full line of  
**Merck's Chemicals**

WE OFFER THE FOLLOWING  
DRUGS AND BOTANICALS



### SCIENTIFIC VALUE

Linked with the Minimum Price

# Pharmacists

# of Prime Quality

IN BULK

(Foreign and Domestic)

THE FINEST GROWN

#### Barks

Virgin Wild Cherry, thin  
Cinchona, red quill  
Calisaya, yellow quill  
Calisaya, yellow flat  
Buckthorn cut (old)  
Sassafras

#### Flowers

Arnica  
Elder, resifted, stemless  
Malva, black  
Malva, blue  
Calendulae  
Chamomile Ger. (fair)  
Am. Saffron, extra

#### Leaves

Short Buchu, choice green  
(new)  
Mellissa, French, choice  
Peppermint, German,  
choice  
Yarrow, German, choice  
Senna T. V. sel. Lge. leaf  
Wormwood Herb  
Uva Ursi Leaves

#### Roots

Ex. select Russ. Licorice  
sq. cut double peeled  
Extra select Licorice, root  
whole, small sticks  
Extra select Althea Rt.  
extra white sq. cut  
Po. Jam. Ginger  
Absolutely pure  
Rad. Ononodis cut.

#### Miscellaneous

HOPS, bulk, 1899, choice N. Y.  
JUNIPER BERRIES  
GUM ARABIC, first pick  
GUM TRAGACANTH, ribbon  
GUM TRAGACANTH, Po. 1st wh. Aleppo  
CAYENNE, Powd. Zanzibar, finest grown  
CAYENNE PEPPER, small pods

#### Essential Oils

D. & O. supplied in Orig. Bots.  $\frac{1}{2}$  to 1 lb.

OIL LEMON, etc.  
ORIGINAL 1 lb. COPPERS  
We are Sole Agents for  
DeANGELIS & CO.'S "Messina" Fine  
Essential Oils



When in a Hurry remember our Special Service Dept.

Reasons why when you are in doubt as to where to send your mail order, providing you desire Botanicals of Quality. Just mail your general drug order to H. K. & Co. and you will be pleased with the quality. All of the above products are prime, fresh and clean, and the finest procurable anywhere, and the quality we offer is rarely (if ever at all) available in this market.

**HUMISTON, KEELING & CO., Chicago**



Dr. K.—“What are you examining with that microscope?”

Mr. T.—“I have just examined the crystalline structure of strychnine, and am now going to look for its structural formula.”



Kurt.—“What are you taking under Prof. Cheney?”

Wind.—“Five-fifths in razor stropping.”



Q.—“Why did the pharmacy students behave so well in 1899—1900?”

A.—“Because they had two ‘coppers’ in their classes.”



Aber nun zum Ueberflusse,  
HAT er noch studirt zwei Jahr',  
Eine Menge von Diplomen,  
Zeugnisse in einer Schaar,  
Stehen ihm jetzt an der Seite,  
Die ein Gedet lesen kann;  
Da wird man sich überzeugen,  
Da ganz fähig ist der Mann.

Dieser kann auch unterscheiden,  
Was gefälscht ist oder echt,  
Darum wird er es nicht leiden,  
Wenn die Waare wär' nicht recht.  
Weine hält er nur von Trauben,  
Und kauft guten Cognac,  
Ja, das schwedische Kräuter-Bitters,  
Macht gesund in einem Tag.



Every drug ground by us is

## Botanically Correct.

Those that depend upon alkaloids for their medicinal value are assayed and required to come up to

### STANDARD STRENGTH.

Every article not perfect in all respects is rejected.

The pharmacist is assured when using our Powdered Drugs for Percolation that his preparations will be of proper strength and free from admixtures of false or foreign matter.

SEND FOR PRICE LIST AND FORMULARY.

**GILPIN, LANGDON & CO.,**  
**BALTIMORE, MD.**

# Jerman, Pflueger & Kuehmsted Co.



**WHOLESALE  
DRUGGISTS.**

113-115-117-119-121  
Huron Street. ✱ ✱

MILWAUKEE.

Prof. B.—(Picking up a can and reading the label) "Babbits potash or lye."

Mr. V.—"I understand there isn't much potash in it but that it is mostly sodium."

Prof. B.—"That's where the 'lie' comes in."



At a meeting of the Pharmaceutical Society in the fall of '97, Mr. S., after weeks of preparation, takes the floor and addresses the audience:

"Gentlemen of the jury, all I've got to say, — — — Gentlemen of the jury, all I've got to say, — — Ladies and gentlemen, all I've got to say is — that's all."

Takes his seat amid loud and continued applause.



Wer nun recht gesund will werden,  
Komme gleich, eh' es zu spät,  
Bringt man das Recept vom Doktor,  
Er selbst in der Nacht aufsteht.  
Parfüme, Mandelmilch und Kleie,  
Hühneraugen = Medicin,  
Pflaster eine ganze Reihe,  
Und auch solche, die recht ziehn.

Alles dieses ist zu haben,  
J. noch vieles ungenannt,  
Auch ein Mittel für die Thiere,  
Die als Wanzen sind bekannt.  
Bleistift, Tinte und auch Federn,  
Was ein Mensch zum Schreiben braucht  
Und auch schöne Gummischläuche,  
Wenn das Kind aus Flaschen saugt.



Augustin J. Hilbert, U. W. '84.

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B. There.—“Yes, cut glass.”



K.—“Why doesn’t Miss T. come out of the rain?”

S.—“Because she has a MacIntosh.”



Q.—“Who is the best ‘Walker’ in the School of Pharmacy?”



Ferner sind da Schönheitsmittel,  
Ja, versäumet es nur nicht,  
Es kann Euch geholfen werden,  
Zu dem schönsten Angefischt.  
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Blühend wird der Wangen Roth,  
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Hat der gute Mann gesorgt,  
Doch wenn man die guten Sachen  
Nur nicht etwa bei ihm borgt.

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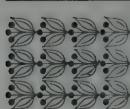
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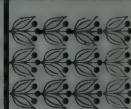


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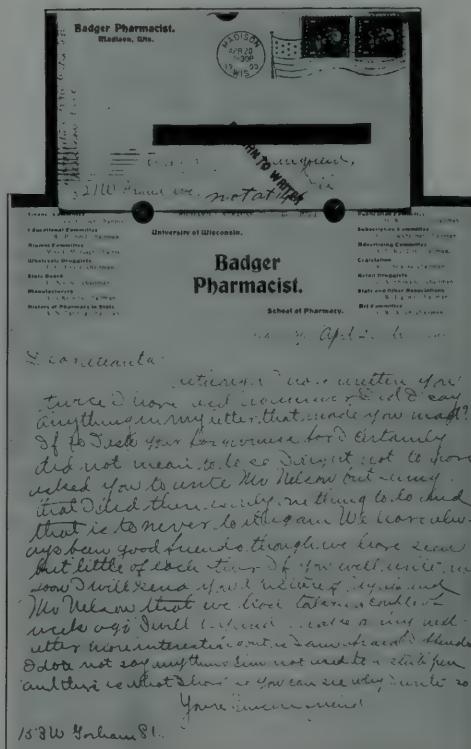
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# Sample Page of "Popular German Names."

12

- Flachskraut** — *Herb. linariae.*  
**Flachslenzen** { *Sem. lini.*  
**Flachssamen** { *Sem. lini.*  
**Flachssalbe** — *Ungt. linariae.*  
**Flachssaatmehl** — *Pulv. sem. lini.*  
**FlechSENSALBE** — *Ungt. popul., Ungt. rorist. mar. comp.*  
**Flechtenpulver** — *Pulv. liquirit. comp.*  
**Flechtensalbe** — *Ungt. zinci, Ungt. hydrarg. cin. dül.*  
**Flecknenlungenkraut** — *Herb. pulmonar.*  
**Fleck's Tropfen** — *Elix. e succo tiquirit.*  
**Fleckwasser** — *Javellewasser. (!)*  
**Fliederblüthe** { *Flor. sambuci.*  
**Fliederthee** { *Flor. sambuci.*  
**Flieder - Kreide, -Muss, -Saft** — *Succ. sambuci insp.*  
**Fliegend Element** — *Linim. ammoniat.*  
**Fliegenholz** — *Lign. quassiae.*  
**Fliegenöl** — *Ol. animale foetid.*  
**Fliegenpfeffer** — *Piper longum.*  
**Fliegenpflaster** — *Empl. cantharidum.*  
**Fliegenspähne** — *Lign. quassiae.*  
**Fliegenthee** — *Lign. quassiae.*  
**Fliere** = Flieder.  
**Flöhkraut** — *Herb. conyzae.*  
**Flöhpulver** — *Flor. pyrethri.*  
**Flohsamen** — *Sem. psyllii.*  
**Flüchtig Element** — *Linim. ammoniat.*  
**Flüchtig Liniment** — *Linim. ammoniat.*  
**Flüchtig und geschwind** — *Liq. ammon. caust. (!)*  
**Flüchtige Kampfersalbe** — *Lin. ammon. camph.*  
**Flüchtige Salbe** — *Linim. ammoniat.*  
**Flüchtiges Salz** — *Ammon. carbon.*  
**Flussblumen** — *Flor. stoechados.*  
**Flussgeist** — *Liq. ammon. caust. (!)*  
**Flussharz** — *Anime.*  
**Flusskörner** — *Sem. paemiae, auch Succ.*  
**Flussöl** — *Linim. saponis. . . . . cinum.*  
**Flusspech** — *Resina pini.*  
**Flusspfaster** — *Empl. canthar. perp. [extens.]*  
**Flusspillen** — *Pil. laxantes.*  
**Flusspurgirpulver** — *Rad. jalapae.*  
**Flussrauch** { *Succin. rasp. oder*  
**Flussräucherpulver** { *Spec. ad sufficien-*  
**Flussräucherung** { *dum.*  
**Flussrachnuptabak** — *Pulv. sternulatorius.*  
**Flussspiritus** — *Linim. saponis.*  
**Flusstinkturm** — *Elix. ad long. vit.*  
**Flussvertheilungstropfen** — *Tinct. car-*  
*minativa.*  
**Fönugräkum** — *Sem. foeni graeci.*  
**Fontanellpflaster** — *Cerat. res. pini, Empl. plumbi simpl.*  
**Fontanellsalbe** — *Ungt. cantharid.*  
**Forellenpflaster** — *Empl. plumbi comp.*  
**Fossal — Ungt. plumbic.**  
**Fräselpulver** — *Pulv. magnes. c. rheo.*  
**Franzbranntwein** — *Cognac.*  
**Franzosenharz** — *Resin. guajaci.*  
**Franzosenholz** — *Lign. guajaci.*  
**Franzosenöl** — *Ol. animale foet.*  
**Franzönsalbe** — *Ungt. hydrarg. cin. dül.*  
**Französischer Thee** — *Spec. laxant. St. Germ.*  
**Frauendistelsamen** — *Sem. cardui Mariae.*  
**Frauenfeuer** — *Glacies Mariae.*  
**Frauenflachs** — *Herb. linariae.*  
**Frauenglas** — *Glacies Mariae.*  
**Frauenhaar** — *Herb. capillorum veneris s. adianthi aurei.*  
**Frauenmantel** — *Herb. alchemillae.*  
**Freisamkraut** — *Herb. violae tricol.*  
**Fresspulver** — *Pulv. equorum.*  
**Froschlingspfaster** — *Empl. cerussae.*  
**Froschlaichpflaster** — *Empl. cerussae, Empl. plumbi comp.*  
**Froschlaichsalbe** — *Ungt. cerussae.*  
**Frostsalbe** — *Ungt. plumbi.*  
**Frostwasser** — *(Aq. cinnam. 15, Acid nitr. 1.)*  
**Fuchsfeft** — *(Adeps.)*  
**Fuchsflungenöl** — *Ol. hyperici.*  
**Fuchsflungensaft** — *Syr. liquir., Syr. rhoeados, Syr. althaeae.*  
**Fünfaderkraut** — *Herb. plantag. (Herb. malv. vulg.)*  
**Fünferlei** — *Linim. saponis. (!)*  
**Fünfblatt** { *Herb. potentil ae, Herb.*  
**Fünffingerkraut** { *agrimonii.*  
**Fünfingerwurzel** — *Rad. tormentillae.*  
**Fünfmännerthee** — *Herb. agrimonii.*  
**Fusspulver** — *Alumen pulv., Pulv. talci salycil.*  
**Gachelkraut** — *Herb. millefolii.*  
**Gachheil** — *Herb. anagallidis.*  
**Gähl** = Gelb.  
**Gährendewas** — *Empl. plumb. comp.*  
**Gähl Göllingthee** — *Flor. calendulae.*  
**Gählsuchtpulver** { *Rad. curcumae pulv.,*  
**Gählsuchtwörtern** {  *auch Rad. rhei pulv.*  
**Gähltotpflaster** — *Empl. plumb. comp.*  
**Gähl-Wundsalbe** — *Ungt. basilic.*  
**Gänseblumen** — *Flor. bellidis.*  
**Gänsefuss** — *Herb. potentillae.*  
**Gänsepappel** — *Malva vulgaris.*  
**Gänserich** — *Herb. potentillae.*  
**Galante** — *Rhiz. galangae.*  
**Galapp** — *Rad. jalapae.*  
**Galgan** — *Rhiz. galangae.*  
**Galgennägel** — *Flor. cassiae.*  
**Galitzenstein, blau** — *Cupr. sulfuric.*  
*" weiss* — *Zinc. sulfuric.*  
**Galläpfel** — *Gallae.*  
**Gallenkraut** — *Herb. gratiolae.*  
**Gallenwurzel** — *Rad. jalapae.*  
**Gallerjahn** — *Rad. galangae, auch Rad. valerianae.*  
**Gallipot** — *Resina pini burgund.*  
**Galmei** — *Lap. calamin. praep.*  
**Galmeipflaster** — *Empl. fuscum.*

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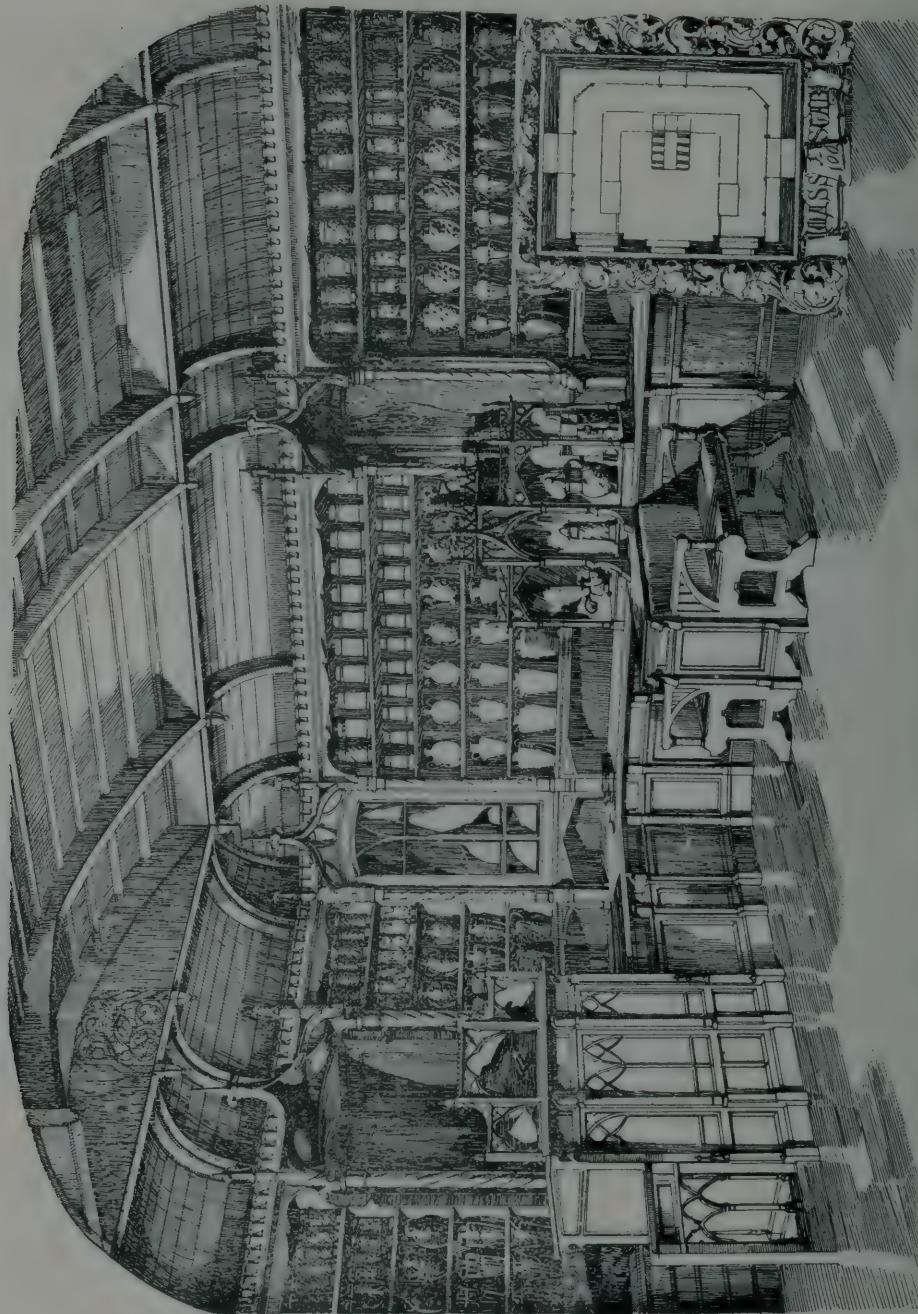
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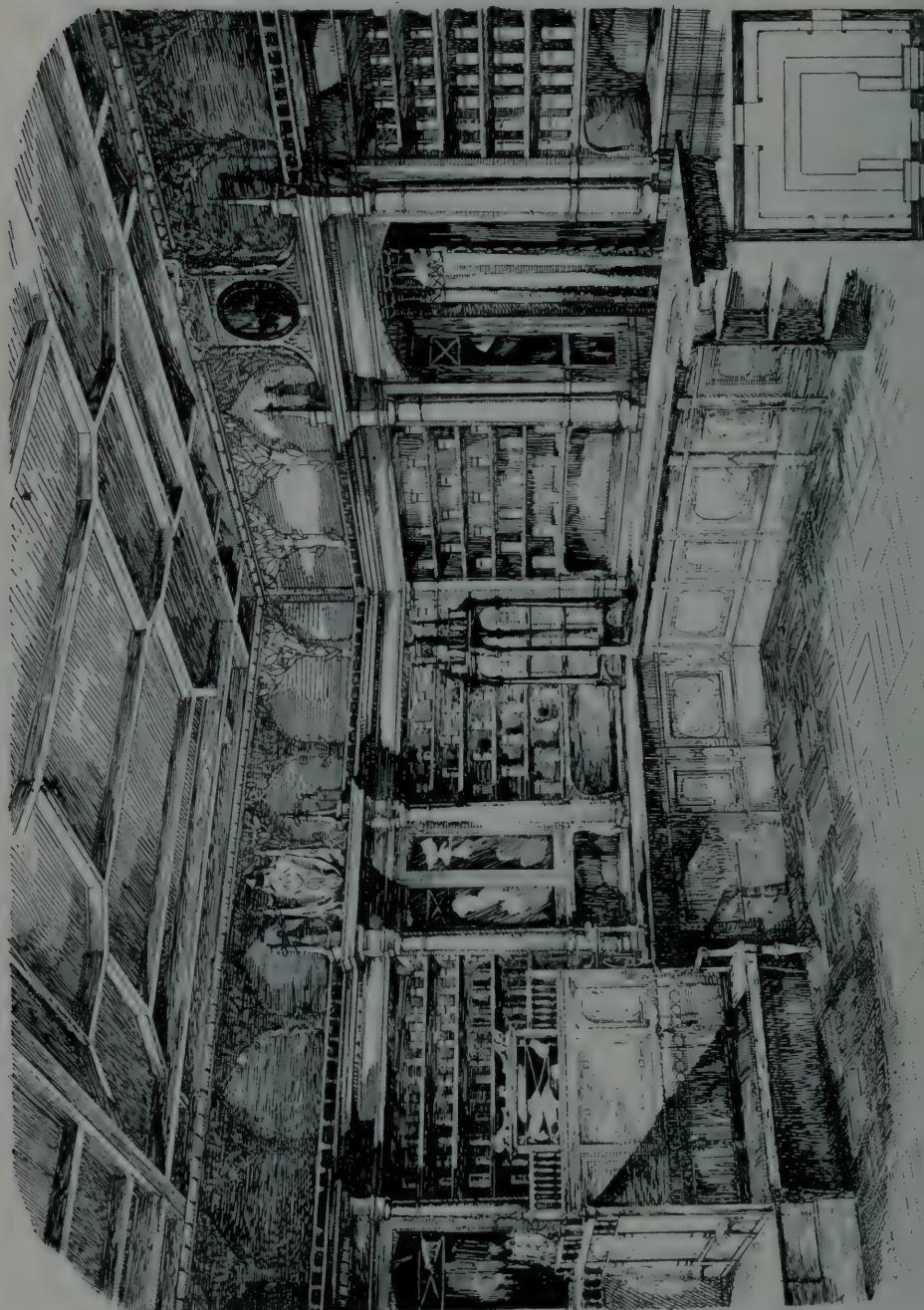
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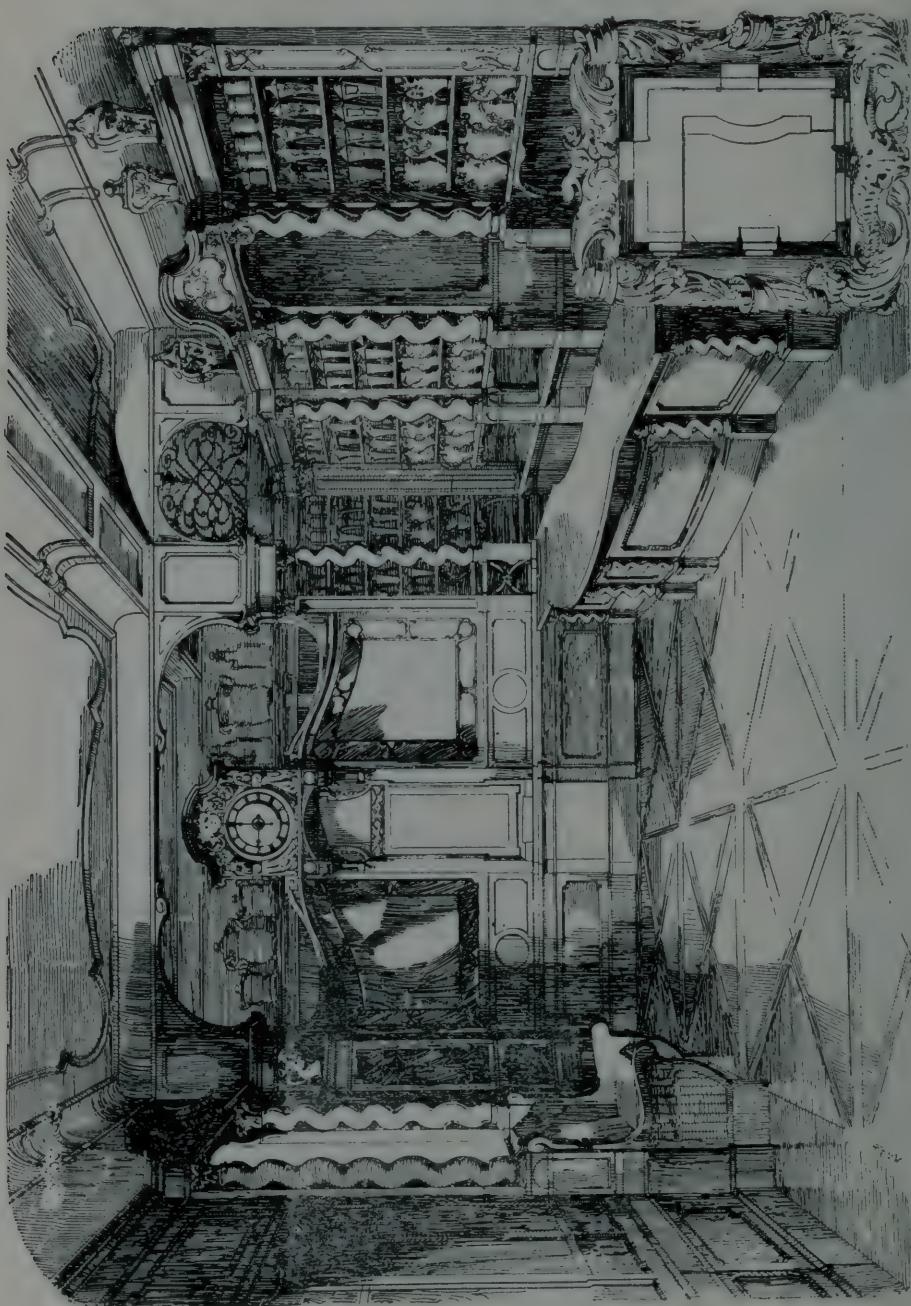
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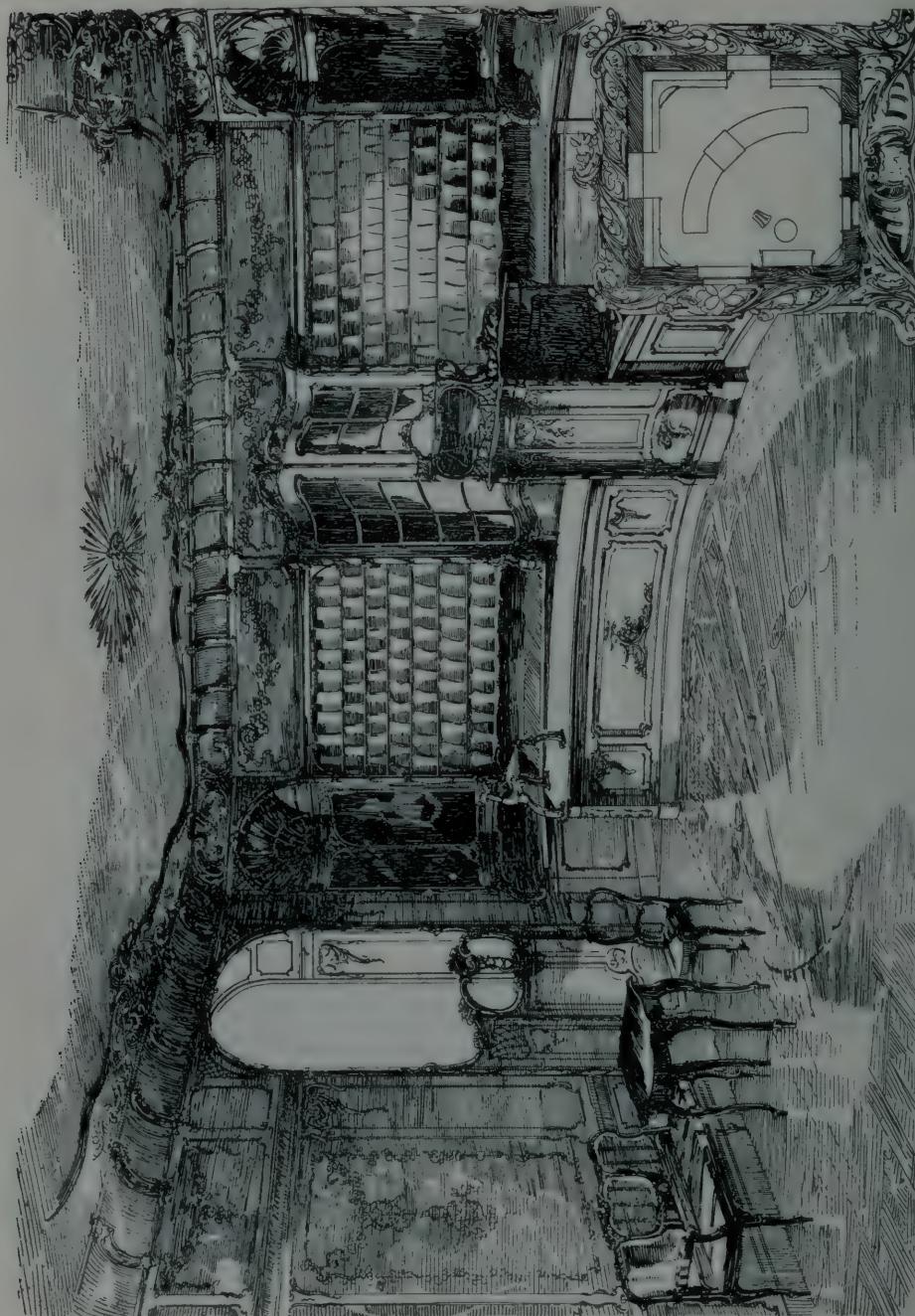
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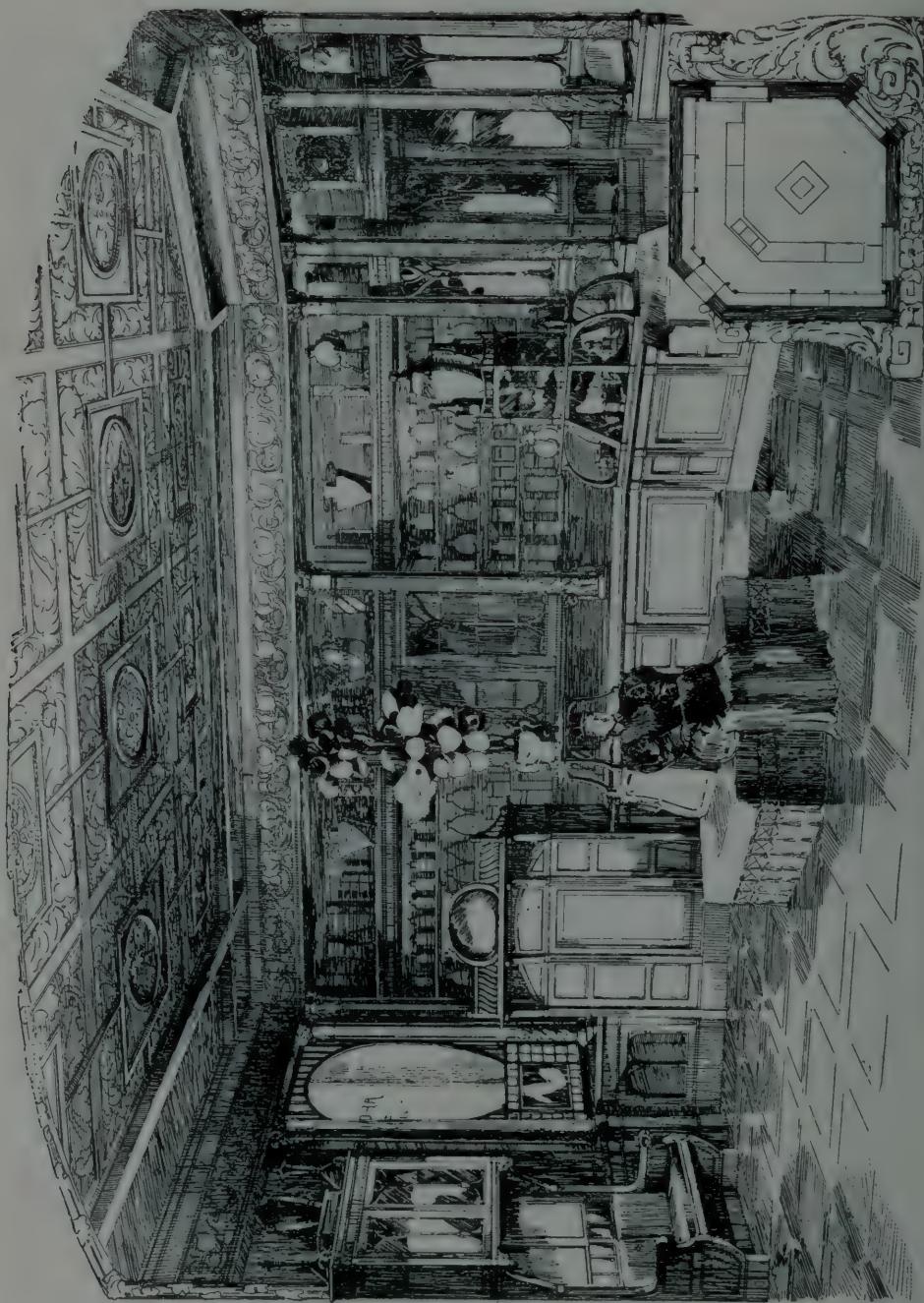
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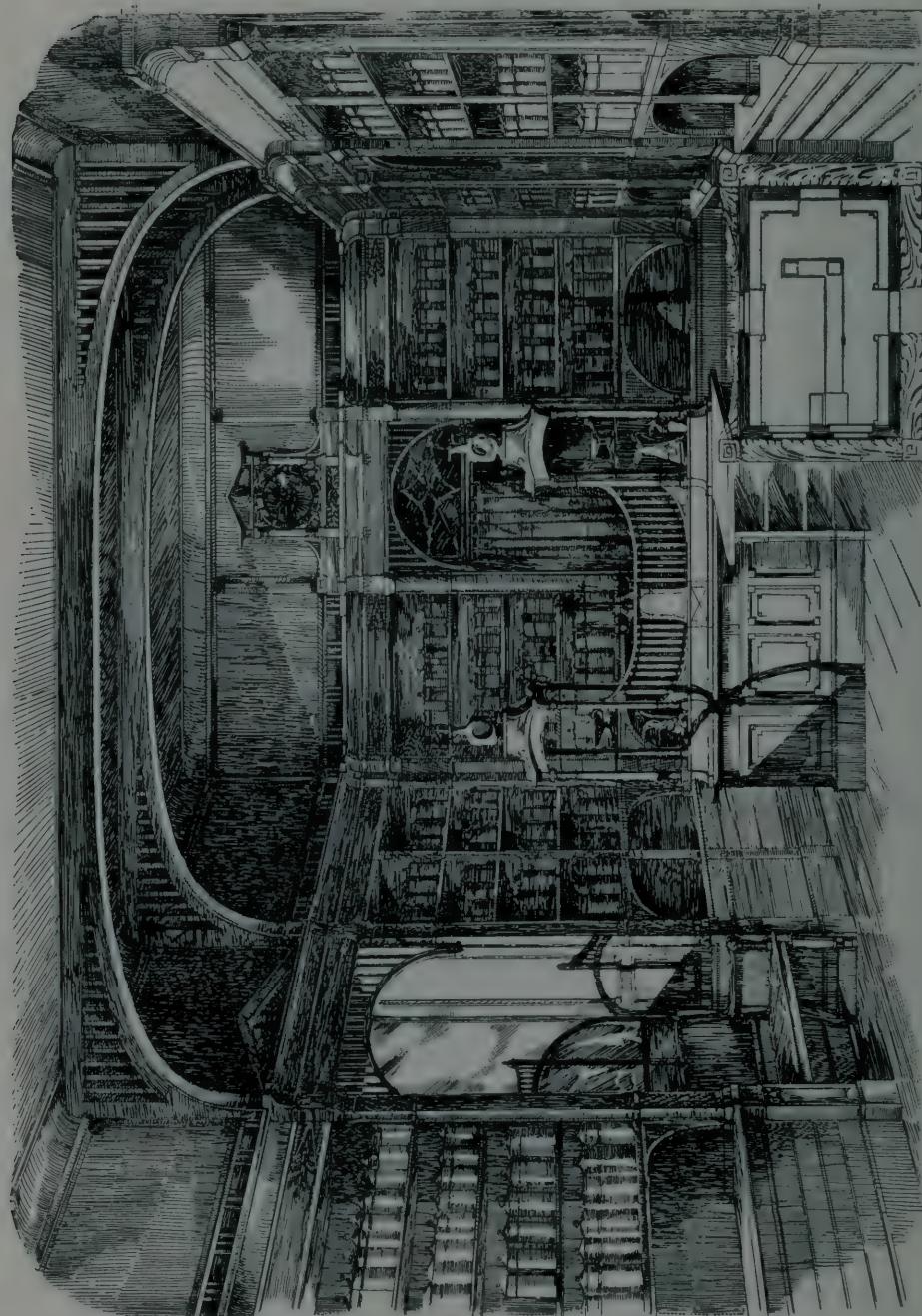
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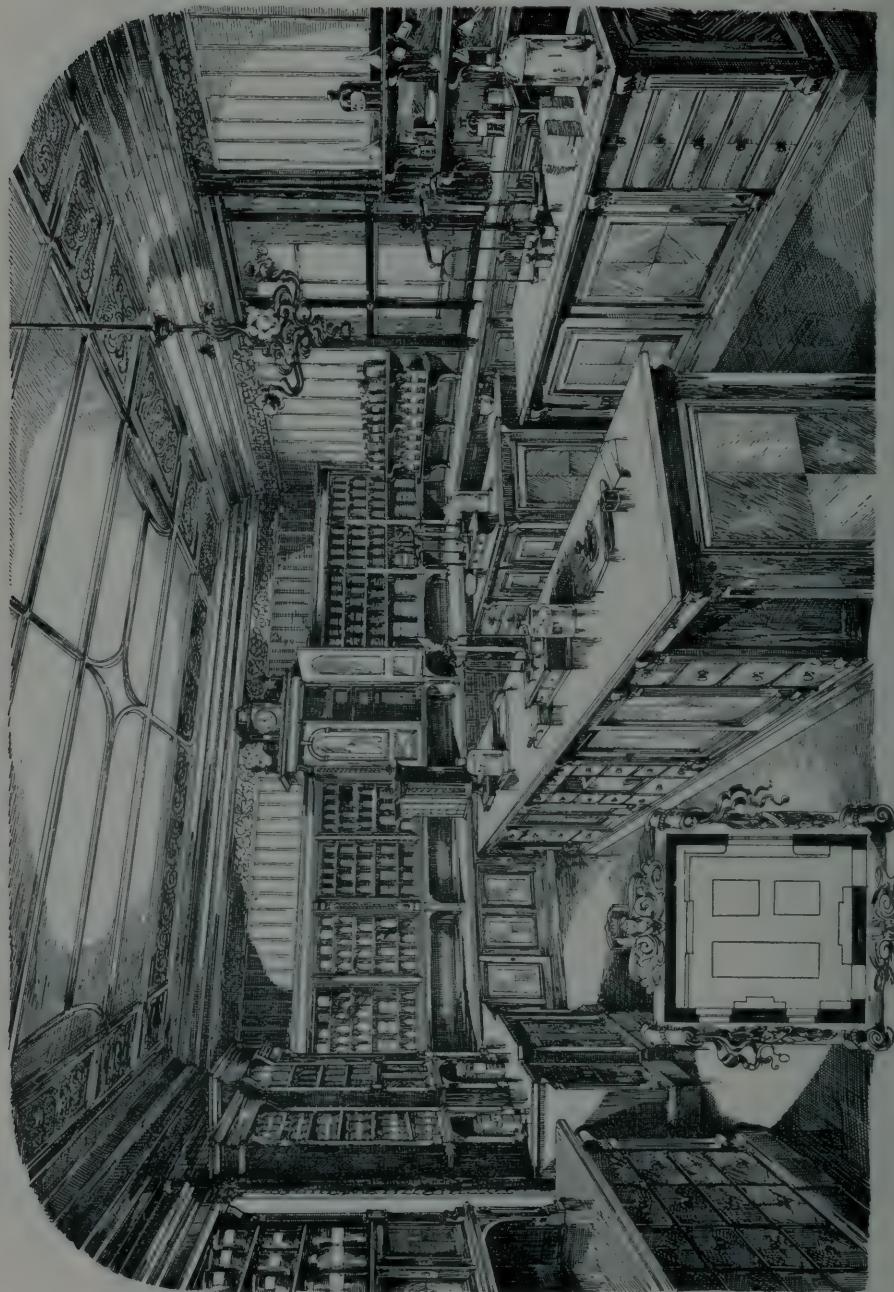
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